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of Illinois Institute of Technology
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University 4-4677

FOR RELEASE: Friday, July 5, 1956

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Three scientists have been named to the European operations staff of Armour Research Foundation of Illinois Institute of Technology, Chicago.

Appointed to serve as observers for the European Technical Observation Group recently established by the Foundation are Dr. Hugo H. Peter, Wlodzimierz J. Polny, and Eugene R. Kun.

Headed by Herbert B. Gausebeck, manager of ARF European operations, the team of observers will leave for its headquarters in The Hague, Netherlands, on July 21, according to Paul B. W. Gollong, manager of the Foundation's international department.

Eighteen non-competing firms have enrolled in the ETOG plan established by ARF as a service to American companies interested in keeping abreast of European technological developments, Gollong explained.

Gausebeck will serve as chemical engineering observer while the others will cover the following categories: Peter, chemistry; Polny, mechanical engineering, and Kun, electrical engineering. A fifth observer, in the metallurgy category, will be named later.

Educated in his native Switzerland and the United States, Peter obtained a bachelor's degree in pharmaceutical chemistry from the Trade School of Druggists in Lucerne in 1945. He was granted an M.S. degree by the Technical University at Burgdorf in 1948 and received his doctorate in organic chemistry from Washington University, St. Louis, in 1954.

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Prior to joining Armour, Peter was employed as a chemist by Hoffman-LaRoche in Basle, Switzerland, and since 1954 had been associated with the research laboratory of Standard Oil Co. (Indiana), engaged in exploratory research in the field of new chemicals and radiation chemistry.

Peter resides at 10 Forest Blvd., Park Forest, Ill.

Polny, a native of Poland, received an M.S. degree in mechanical engineering from the Lwow Institute of Technology in 1936. Before coming to the United States in 1943 as assistant air attaché for the Polish Embassy in Washington, D.C., Polny was engaged in research and engineering in Poland and France.

He served as a pilot with a Royal Air Force Squadron in England and held the rank of lieutenant in the Polish Air Force during World War II. He has been associated with Air-Trails, Inc., California Rotogravure Co., Metal Export, Co., Allied Processes, Consultants and Designer, Inc., and Loewy-Hydropress Division of Baldwin-Lima-Hamilton.

A resident of New York City, Polny lives at 511 W. 232nd St.

Born in Hungary and educated in Austria, Kun was graduated with the degree of Diplom Ingenieur in electrical engineering from the Technische Hochschule in Vienna in 1934.

Since coming to the United States, Kun has been associated with Evans Case Co. and Art Metals Works, Disholt Machine Co., Bell and Howell, Bolsey Corporation of America, Eastern Air Devices, Inc., and Hycon Manufacturing Co. He also served as technical intelligence analyst for the U.S. Department of Commerce.

Kun resides at 705 Bonita Dr., South Pasadena, Calif.

All will take their families with them to The Hague.

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FOR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

George C. Olsen, 3095 N. Kilpatrick Ave., Chicago, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. George Olsen, [illegible] is a chemical engineering senior at Illinois Tech.

Tau Beta Pi is comparable to Phi Beta Kappa and membership is awarded for distinguished scholarship and exemplary character as an undergraduate in the field of engineering.

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From: Walter Yurk
CAlumet 5-9600
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[illegible] Taylor, 1011 E. [illegible] Avenue, [illegible],
has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mrs. [illegible] Taylor, [illegible] is a mechanical engineering senior at Illinois Tech.

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FOR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Mr. William F. [illegible], 6230 N. Avondale, Chicago, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. William J. [illegible], he is a Chemical engineering senior at Illinois Tech.

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From: Walter Yurk
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Ron A. Hedin, [illegible] Washington Avenue, Chicago, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. Andrew Hedin, he is a electrical engineering senior at Illinois Tech.

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Howard J. Wilke, 6[illegible]7 Cornelia, Chicago has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mrs. Frieda Bandle, 425[illegible] N. Mozart, [illegible] is a electrical engineering senior at Illinois Tech.

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Mr. Isamu Aito, 537 N. Wells, Chicago, Illinois, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mrs. Kurano Aito , Kuntistown, Hawaii, he is a electrical engineering graduate of Illinois Tech.

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William T. Barnett, 3305 S. Wisconsin, Berwyn, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. L. M. Barnett, he is an electrical engineering senior at Illinois Tech.

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From: Walter Yurk
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Malvin J. Fohrman, [illegible] N. Drake Avenue, Chicago,

has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. Dave Fohrman, he is a mechanical engineering senior at Illinois Tech.

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[redacted]

has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of [redacted] is a [redacted] engineering [redacted] at Illinois Tech.

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Robert J. [illegible], [illegible] S. [illegible], Chicago,
has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. [illegible] [illegible], he is a industrial engineering senior at Illinois Tech.

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FOR RELEASE: At Will

From: Walter Yurk
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John F. Tauber, 1707 Beverly Glen Ave., Chicago, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. Francis [illegible]. Tauber, he is a chemical engineering senior at Illinois Tech.

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From: Walter Yurk
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Ext. 547

Kenneth P. Hale, 10831 Wallace St. Chicago

has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son of Mr. and Mrs. Walter Hale, he is a mechanical engineering June graduate/~~of~~ of at Illinois Tech.

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FOR RELEASE:

Thursday, July 5, 1956

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Chicago--A unique shelter inspired by a piece of folded paper has been erected on the campus at Illinois Institute of Technology.

The experimental structure, with walls and roof that are one, rests gracefully on the points of 14 triangles that form its roof-walls. It was designed and built as part of a shelter design class project at the Institute of Design, a department of Illinois Tech.

"The class was interested in developing shelters that were easily erected, could be mass produced inexpensively, and were as sound as normally constructed buildings," said Richard Baringer, architect and lecturer in shelter design.

The form developed from a flat piece of paper folded into triangles until a structure was shaped that stood by itself and enclosed a large space in an esthetically pleasing fashion, according to Baringer.

Appraising the structure, Jay Doblin, director of the Institute of Design, said, "It has a very interesting spatial feeling, especially from the inside."

Created by David Kropp, a design student from Mokena, Ill., the structure could be used as it is for a camp activity shelter or a roadside food stand.

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"With screening or glass in the triangular openings, it would make a fine summer cottage," Baringer said.

Chief advantages of the structure over a conventional building of the same size are:

--Low cost estimated at about one-third of the cost of a building constructed by conventional methods enclosing the same amount of space.

--Extreme strength because of the structural principles employed.

--Easy portablity because of its light weight, plus the fact that the structure can be laid out flat or even folded for shipping.

In telling about the structural principles upon which the shelter is based, Baringer said that it has great strength because all stresses are triangulated so that equilibrium is achieved at all points, and because its planes are folded, as the structure is hinged, which gives each surface added strength.

The temporary structure was built by two design students, John Zerning, 231 W. Menomonee St., Chicago, and Donald Davidson, Waterloo, Quebec, Canada. They used Masonite fiber pressdwood over a honey comb core to construct the panels. Metal hinges secure the joints between the panels.

"In a permanent structure the joints would have to be covered with a waterproof substance such as metal or plastic," Baringer pointed out.

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He suggested that lightweight modern materials such as aluminum skin or molded fiberglass would make a structure that is light and inexpensive. He said such a structure could be mass produced to sell for approximately $1000.

"Such a lightweight shelter, easily erected and transported, might have great usefulness in military operations," Baringer speculated.

The temporary structure erected by the students on the IIT campus was painted white. In an outdoor wooded setting, the students visualize the structure with its triangles painted harlequin-like in two or three bright colors.

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FOR RELEASE: Immediate

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Two students at Illinois Institute of Technology, Chicago, have won appointments to the United States Naval Academy, Annapolis, Md.

They are Joseph C. Dobes Jr., 3633 S. 54th Ct., Cicero, and John E. Olson, 7424 Harvard Ave., Chicago.

Both students completed their freshman years at Illinois Tech where they were enrolled in the Naval ROTC program.

Dobes, a graduate of J. Sterling Morton High School, is the son of Mr. and Mrs. Joseph C. Dobes Sr. A chemistry major at Illinois Tech, he was on the dean's list of undergraduate honor students for the 1955 fall semester.

Olson is the son of Mr. and Mrs. Roy E. Olson. He was graduated from Parker High School in June 1955.

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FOR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Joseph M. Desper, 912 E. 76th, Chicago has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

The son on Mr. and Mrs. John J. Desper, 115 E. Poplar, Taylorville, he is a industrial engineering senior at Illinois Tech.

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FOR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Paul A. Hyndman, 621 S. 9th Ave., LaGrange, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

Hyndman is a June industrial engineering graduate of Illinois Tech.

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7/5/56

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FOR RELEASE: At Will

From: Walter Yurk
Calumet 5-9600
Ext. 547

Erhard Koch, 9130 Exchange Ave., Chicago, has been initiated into membership in Tau Beta Pi, national engineering honorary fraternity, at Illinois Institute of Technology in Chicago.

Koch is a mechanical engineering senior at Illinois Tech.

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FOR RELEASE: Monday AM's, July 9, 1956

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

A Chicago research organization has been awarded two contracts to determine the best civil defense warning signal system for use in event of enemy attack.

The contracts, totaling $63,575, have been awarded to Armour Research Foundation of Illinois Institute of Technology, Chicago, by the Federal Civil Defense Administration.

Armour scientists will investigate the use of power lines and telephone systems to transmit warning signals, according to Virgil H. Disney, manager of ARF's electrical engineering research department.

Purpose of the study is to determine a method of transmitting signals which would permit the design of an effective alarm system at a minimum expense, Disney said.

Different approaches to the problem will be carried out in separate projects by scientists in two sections of the electrical engineering department.

The use of power lines to transmit warning signals while concurrently maintaining power for the community will be studied by the electric machines, components, and measurements section, according to the supervisor, Dr. Harold L. Garbarino.

7/5/56

The computer development section will investigate the use of telephone systems as a means of warning the general public, under the supervision of Edward A. Roberts, assistant manager of the electrical engineering department.

Working under a $39,557 contract, Garbarino's section will try to determine the most effective and economical warning system for cities, based upon a signal transmitted by a power distribution system.

The study will involve consideration of a suitable signal receiver for use in homes, offices, and factories, a device to generate a warning signal, and problems in transmission, Garbarino explained.

Robert's section will investigate systems that would permit sending out alarm signals without making the telephone system inoperative, except possibly during the period of transmitting the alarm. The telephone systems study will be conducted under a $24,918 contract with the FCDA.

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OR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Six new instructors have been appointed to the faculty of Illinois Institute of Technology, Chicago, effective Sept. 1, President John T. Rettaliata has announced.

They are: Warren Y. Gore, speech and English; Henry J. Hawry, technical drawing; Russell H. Levy, psychology; Basil J. Reitzer, chemical engineering; Kenneth R. Schug, chemistry, and Berthold Schweizer, mathematics.

Gore, 7759 N. Sheridan Rd., Chicago, received a bachelor of journalism degree in 1948 from the University of Missouri and a master of arts degree in English in 1950 from the State University of Iowa.

Hawry, 5703 S. Kenwood Ave., Chicago, was granted a bachelor of science degree in civil engineering in 1947 from Illinois Tech.

A doctor of philosophy degree was awarded by Illinois Tech in 1955 to Levy, 7131 Keating Ave., Chicago. He received his bechelor of science degree from Northwestern University in 1937 and his master's degree in 1950 from Illinois Tech.

Reitzer, 349 Sauk Trail, Park Forest, received his doctorate from Northwestern University in 1952. He received his bachelor and master's degrees at Northwestern in 1949 and 1951, respectively.

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7/6/56

Schug, who is a project associate at the University of Wisconsin, received his doctor of philosophy degree in 1954 from the University of Southern California. His bachelor's degree was awarded in 1945 by Stanford University.

Schweizer, 923 E. Hyde Park Blvd., Chicago, received his doctorate in June from Illinois Tech. He was granted a bachelor's degree in 1951 from the Massachusetts Institute of Technology and his master's in 1954 from IIT.

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OR RELEASE Immediate

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Chicago--Six Air Force scientists will take turns flirting with death starting Wednesday, July 11.

The team of volunteers will serve as human guinea pigs for a research project being carried out by biologists at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Purpose of the study is to determine the toxicity of ozone, according to Clark E. Thorp, manager of the ARF chemistry and chemical engineering research department.

A leader in ozone technology, the Foundation is conducting the investigation for the U.S. Air Force School of Aviation Medicine, Randolph Air Force Base, Texas.

The six guinea pigs, headed by Dr. Hans-Georg Clamann, physiologist at the School of Aviation Medicine, will expose themselves to controlled concentrations of ozone in ARF's ozone chamber--one of few in existence.

Ozone--a lethal gas--is a form of oxygen found concentrated in the atmosphere at altitudes of 60,000 to 140,000 feet.

Foundation scientists have been working on ozone toxicity for more than two years, according to Dr. Sidney Mittler, project leader.

Because of the toxic nature of the gas, only laboratory animals had been exposed to ozone, he explained. However, last April, Dr. Clamann pioneered as a guinea pig in the first controlled experiments on a human being.

Clamann and his five associates from Randolph Air Force Base will expose themselves to from one to 10 parts of ozone to a million of air in an 8-day series of experiments to be conducted at Armour.

Previous experiments on laboratory animals showed that exposure to as low as 12 parts ozone to a million parts of air proved fatal to some animals within three hours, Mittler said. However, the dose required to kill 50% of the common laboratory animals is in the range of 20 to 35 parts ozone to a million of air.

In the first study of human reactions, Clamann remained in the ozone chamber for 2 1/2 hours, breathing a concentration of two parts ozone to a million parts air.

"A tickling sensation in the throat and pain in the chest on deep inhalation were the first symptoms to appear," said Mittler.

"The vital capacity of Dr. Clamann's lungs also was reduced," he said, "but he was sufficiently recovered by the next day to participate in a second test."

The concentration was increased to six parts ozone per million for the second experiment.

Lung irritation became apparent after 20 minutes, but the 54-year-old German physiologist remained in the gas chamber for a full hour and four minutes. At various stages of exposure, he tested his sense of taste by eating peanuts and checked his pulse rate.

"Clamann's reactions enabled us to determine that neither the sense of taste or smell was impaired by exposure to ozone," Mittler stated. "Nor was there any change in pulse rate."

It also was pointed out that there was no eye irritation as a result of exposure to pure ozone.

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"However," Mittler added, "both Clamann and the peanuts smelled like rancid butter because the fats in his skin and in the peanuts had been oxidized."

As project monitor for the School of Aviation Medicine, Clamann has been closely associated with the ARF study since its inception.

When the investigation reached the stage where a study of human reactions was necessary, Clamann volunteered to serve as the subject.

This is not the first time that the German scientist has served as a human guinea pig. He was the first man to expose himself to 100% oxygen and to participate in experiments in explosive decompression.

A naturalized American citizen, Clamann came to the United States in 1947. He has been a research physiologist in the department of physiology and biophysics at the School of Aviation Medicine since coming to this country from Germany.

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OR RELEASE At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Chicago--The use of ionizing radiation as one possible method for sterilization of sewage containing bacteria, viruses, fungi, and toxins is under study at Armour Research Foundation of Illinois Institute of Technology.

Purpose of the program is to evaluate means of completely sterilizing sewage, according to Clark E. Thorp, manager of the Foundation's chemistry and chemical engineering research department.

Heat in the form of steam is the most commonly used method of sterilizing sewage, explained Dr. Richard Enrlich, supervisor of biology and bacteriology at ARF.

"More work remains to be done," added Ehrlich, "to determine the full bacteriological engineering and economic feasibility of irradiation techniques in this field."

The project is in progress under sponsorship of the Army Chemical Corps.

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7/9/56

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OR RELEASE At Will

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Charles H. Schuh has been named technical advisor to the Union of Burma under a contract with Armour Research Foundation of Illinois Institute of Technology, Chicago.

Schuh will join other Foundation personnel in fulfilling a contract with the Burmese government for the expansion of the Burma Applied Research Institute at Rangoon, according to Paul B. W. Gollong, manager of the international department.

The Burma Institute was organized in 1947. In 1953, Armour Research Foundation undertook reorganization and expansion of the Institute's long-range research and development program and the formation of the present staff under the U.S. Technical Cooperation Administration program.

Schuh left for Burma on July 8.

A development engineer, he has been engaged in research and development for 32 years. Before joining the Foundation, Schuh was president of Palmetex Corp., Pinellas Park, Fla., ordnance products firm.

He also has been associated with Carbide and Carbon Chemicals Co. and Bakelite Co., both divisions of Union Carbide and Carbon Corp., National Aniline Division, Allied Chemical & Dye Corp., and E. I. du Pont de Nemours & Co.

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7/9/56

A native New Yorker, Schuh received his A.B. and Ch.E. degrees from Columbia University. He is a member of Sigma Xi, scientific honorary scciety.

Schuh and his wife have been residing at 2904 Coachman Ave., Tampa, Fla.

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OR RELEASE: Immediate

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

John K. Diederichs has been named manager of the engineering economics research department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Diederichs' appointment became effective July 1, according to Dr. E. H. Schulz, ARF assistant director.

A former management consultant, Diederichs joined the Foundation Jan. 1 as assistant manager of the engineering economics research department.

The department was established by ARF in 1955 to meet the increased need for combined scientific, engineering, and economic background in solving many industrial problems, Schulz explained.

Diederichs will direct research in such areas as subscribers services, area development, forcasting, engineering economics, human engineering, and nuclear economics.

Prior to joining the Foundation, Diederichs was associated with Booz, Allen and Hamilton, management consultants, and in sales promotion for Pan American Airways.

He served as a navy lieutenant in the Pacific during World War II after graduating with an A.B. degree from the University of Chicago in 1943.

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7/10/56

Diederichs is a member of the Institute of Management Sciences, Society of Industrial and Applied Mathematics, Operations Research Society of America, Institute of Radio Engineers, and the Econometric Society.

He resides at 329 Callan Ave., Evanston, Ill.

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R RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Chicago--If the transmission fluid you buy for your automobile bears the label "AQ-ATF" you can be certain it will give first class performance.

The letters stand for "Armour Qualification--Automatic Transmission Fluid." The symbol represents assurance that continuted use of the fluid will protect the inner mechanism of your car's automatic transmission.

The "Armour" refers to Armour Research Foundation of Illinois Institute of Technology, Chicago, which acts as an independent investigating agency in evaluation the formulas submitted by petroleum refiners.

The program, which was begun seven years ago, now includes "Type A" transmission fluids marketed under more than 400 trade names. As a result, the AQ-ATF label can be found on fluid cans around the world--either on products sold by United States marketers or by foreign oil companies.

This labeling plan resulted from the first automatic transmission introduced by General Motors Corp. It was found that a special fluid was necessary to function as a hydraulic power-transmission medium, hydraulic control fluid, heat-transfer medium, clutch fluid, and a gear and bearing lubricant.

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"Even the highest quality lubricants on the market at that time were not suited for this use," according to H. Ruwe Barton, supervisor of engines, fuels, and lubricants at ARF.

To measure up to these requirements, GM developed Automatic Transmission Fluid, "Type A." Because successful performance of the transmission depended upon continued use of the proper fluid, and because few petroleum refiners at the time produced such a product, GM set up a qualification system to provide widespread marketing of the fluid under various trade names.

In 1949, Barton said, GM called on ARF to act as the independent investigating agency in qualifying formulas submitted by petroleum refiners.

Fluids submitted to the Foundation are given 18 different tests on durability, miscibility, viscosity, fire point, pour point, rust prevention and others. If the formula passes, it is sent to GM for other performance tests. After that it is submitted to a GM technical committee.

Because of the dependability of the fluid and qualification method, other automobile manufacturers also recommend use of "Type A" as the best protection for their automatic transmissions, Barton stated.

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OR RELEASE: Friday AM's, July 13, 1956

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Branch laboratories have been established at Tucson, Ariz., by Armour Research Foundation of Illinois Institute of Technology, Chicago.

The increasing volume of research in the Southwest and on the West Coast necessitated opening of the branch, according to Dr. Haldon A. Leedy, ARF director.

Alfred J. Hoehn, assistant manager of the electrical engineering research department, will head ARF's Southwestern Laboratories--the name given to the branch facility, Leedy said.

The new laboratory is located at 443 S. Stone Ave., Tucson.

This is the first branch laboratory to be established by the Foundation, Leedy explained, although ARF directs research facilities in a number of foreign countries on a contractual basis.

All other research, with the exception of the work done at ARF's Riverbank Acoustical Laboratories at Geneva, Ill., is carried out at Technology Center, its headquarters in Chicago.

The Foundation also will open an European operations office in The Hague, Netherlands, in July, in conjunction with its European Technical Observation Group plan.

Hoehn currently is directing work on two projects for the Army Electronic Proving Ground at Ft. Huachuca, Ariz.

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A specialist in radio, radar, and communications, Hoehn and a staff of Foundation engineers have been in Arizona since last August, working on complex man-machine systems involving communications, radar, and radio navigation equipment.

Industrial and defense activities in the Tucson area, especially in the electronics field, have made it particularly desirable for the Foundation to open a Southwestern branch, Hoehn stated.

"Work at the branch laboratories will not be limited to electronics if the demand for research in other areas is sufficient to warrant expansion," he said.

Founded in 1936, Armour Research Foundation today has become one of the world's largest independent research organizations, having an annual research volume in excess of $11 million.

The Foundation performs basic and applied research on a contractual basis for industry, the government, and the public. Its scope of activity covers practically all of the physical sciences and fields of engineering.

Research at the Foundation is conducted under what is known as the "Armour Plan"--the team approach to scientific investigation.

Under this philosophy, it was pointed out, diversified talents are focused on projects which often cross departmental lines.

More than 550 research projects are handled annually through ARF's nine departments.

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R RELEASE:
Sunday, July 15, 1956

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Chicago--A modern 3-bedroom home design has been awarded first place in a contest sponsored by Illinois Institute of Technology as part of the Morton Arboretum Small Homes Competition.

Robert A. Catlin, 7041 S. Eberhart St., a student at Chicago Vocational High School, received the $100 first place award.

The design submitted by Catlin features a simple, ranch-type home constructed of wood. Large expanses of glass separate the interior from an enclosed patio--affording outdoor living with a maximum of privacy.

The house is planned on an 8-foot module and features a low pitched roof. Skylights are provided for the two bathrooms, and heating is hot air, gas fired.

Recipients of $10 honorable mention awards include: Gordon Bland, 11019 Avenue D, Chicago, Chicago Vocational High School; Raymond D. Engelhard, 8012 W. Gridley Ave., Wauwatosa, Wis., Wauwatosa High School; David Knapp, 3935 Sawyer Ave., Chicago; S. Keith Shifferd, 704 Chidester St., Glen Ellyn, Ill., Glenbard High School, and John Visser, 10244 S. Longwood Dr., Chicago, Chicago Vocational High School.

Purpose of the competition was to stimulate and demonstrate original thinking on the relationship between the interior and exterior of houses.

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Entrants were required to submit floor plans, a general exterior view of the structure, detailed construction views, and a cost estimate for the building. The competition was limited to designs of 2 or 3 bedroom houses costing less than $27,000.

Judges of the high school portion of the competition were Alfred Caldwell, Reginald F. Malcomson, and James A. Speyer, faculty members in the Illinois Tech architecture department.

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DR RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Fifty-two evening courses in five study areas will be offered during 1956-57 at the Institute of Design of Illinois Institute of Technology, Chicago.

The courses will deal with foundation and survey, visual design, photography, art education, and product design, according to Jay Doblin, Institute of Design director.

Evening division registration for the fall semester will be Sept. 10 and 11 for graduate courses, and Sept. 14 for undergraduate courses. Fall semester courses get under way Sept. 17. The semester ends Jan. 26.

Courses of special interest to design professionals and advance students include graphic design for television, experimental typography, and contemporary art and design seminars.

The graphic design course will investigate the relation of visual design to television through a series of projects, lectures, and tours, Doblin explained.

"In experimental typography we try to give the student an intuitive approach to typography interspersed with lectures and demonstrations of commercial methods," he said.

Included in the offerings is a workshop course for the professional photographer who wants to gain a better understanding of photography as a creative medium.

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The class will investigate photography as a medium of self-expression through a study of photography problems and approaches to subject matter, culminating in the creation of a photographic series.

An advanced art education program--arranged so that teachers can earn master's degrees in the evening--will include graduate-level courses in visual fundamentals, sculpture, history and theory of art education, methods of teaching the visual arts and photography in art education.

Evening courses at the Institute of Design are open to any interested adult who has the educational preparation and background needed for study of a desired course. Before a student may become a candidate for a degree, he must meet Illinois Tech's entrance requirements for degree candidates.

All inquiries regarding evening courses at the Institute of Design should be directed to the Director of the Institute of Design, Illinois Institute of Technology, Technology Center, Chicago 16, Illinois.

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R RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Edwin J. Latos has been promoted to supervisor of physical chemistry research at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Clark E. Thorp, manager of the ARF chemistry and chemical engineering research department, also announced that Edward G. Fochtman has been promoted to assistant supervisor of the fine particles section.

Latos, formerly a research physical chemist, has done work in such diversified fields as ion exchange technology, rheology, and surface chemistry.

He first served at the Foundation during 1942-46 as an assistant physical chemist. After his graduation from Central YMCA College in 1946 he became chief chemist at Coburn Laboratories.

In 1951 Latos rejoined the Foundation as an associate chemist, was promoted to research physical chemist in 1952 and assistant supervisor of physical chemistry research in 1955.

Latos, who resides with his wife and three children at 5742 W. Ainslie St., Chicago, is a member of the American Chemical Society and the American Association for the Advancement of Science.

Fochtman received his bachelor's degree in chemical engineering in 1943 from Michigan State University. After three years with the armed forces in a technical capacity, including an assignment on the Manhattan project, he joined the Foundation in 1946 as assistant chemical engineer.

Fochtman has made numerous contributions in chemical engineering and in fine particles technology. He recently was requested to serve as a civilian technical consultant for the Chemical Corps in recognition of his background in the field of particulate technology.

Married and the father of four children, Fochtman lives at 595 Rex Blvd., Elmhurst, Ill. He is a member of the American Chemical Society, the American Institute of Chemical Engineers, and the Air Pollution Association.

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OR RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Chicago--A new intelligence test for the blind has been devised to better measure their vocational capabilities.

The test was developed by Dr. S. B. Watson, who received his doctorate in psychology at Illinois Institute of Technology last month, and Dr. Harriett Shurrager, assistant professor of psychology.

To achieve an accurate intelligence score for the blind, the verbal phase of the standard IQ test--the Wechsler-Bellevue Intelligence Scale--was combined with the performance test which seeks to measure manual dexterity and perceptual ability without usual cues.

Watson pointed out that the W-B verbal scale alone does not adequately test a blind person's capabilities because it has been found that some people who score high in the verbal phase score low in the performance scale, and vice versa.

The Wechsler-Bellevue scale also includes a performance test, Watson said, but it requires sight. As a result, it is of little value in predicting an unsighted person's manual performance potential, he stated.

In the preparation of his doctor's thesis Watson gave the tests to 40 fully sighted persons, 40 with partial vision, and 39 blind people.

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"The results appear to justify," said Watson, "the development of separate IQ scales for each sample. To achieve an IQ score of 100, a blind person must have reached a scaled score of 54, whereas a partially sighted needs only 51 and a sighted 47. A spread of 12 scaled points exists between the blind and sighted for an IQ score of 120."

In other words, probably because of their experience in living in darkness, the blind do better in the tests than the sighted and partially sighted and, therefore, must achieve a higher score than the other two groups for an IQ of 100.

The sighted and partially sighted were not allowed to see the objects beforehand because recognition of the items would make the tests unreliable. This was pointed up when the tests were repeated for some subjects; the resulting scores were quite different from the original scores.

Watson uses a mask on all his subjects because, he said, some people who are considered blind are able to distinguish between light and dark objects. He gives the verbal test first and then the performance scale which he and Mrs. Shurrager developed.

The new test, which is called the "Performance Scale for the Adult Blind," consists of these five sub-tests:

1. Digit symbol test--This consists of a board embossed with simple geometric forms--circles, squares, triangles, etc. A vertical column down one side of the board includes one sample of each of the six figures used. Raised dots on these indicate a number, from one to six, with which each figure is to be associated. The 40 figures arranged beside the vertical series have no dots on their surface. The person being tested is required to identify these figures by their appropriate number.

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2. Object assembly test--This phase of the test consists of a block, doll, hand, and ball, each of which has been dissected into several pieces. The objects are to be reassembled by fitting the pieces together.

3. Block design test--Four cubes each having two smooth sides, two rough sides, and two sides diagonally divided into half rough and half smooth. The four blocks are to be arranged to form patterns identical to those appearing on plates prepared from the same material.

4. Plan of search test--The test consists of a blank sheet of paper placed over a smooth enclosed surface. The surface is supposed to contain a one-quarter inch hole which is to be located by passing a pencil over the paper. The person being tested is scored on the method with which he explores for the hole.

5. Object completion test--Fifteen familiar objects from which one important and obvious part has been removed are placed before the subject. He is to identify the missing part.

The resultant "IQ" score from this performance test, in conjunction with scores from appropriate verbal tests, indicate the vocational ability of a blind person and can be helpful in placing him in a suitable job, Watson and Mrs. Shurrager stated.

The blind, Watson reported, did better than the sighted and partially sighted on the digit symbol, object completion, block design, and plan of search tests. On the object assembly test, the blind were inferior to the sighted and partially sighted.

-more-

Prior to World War II, Watson worked on employment problems for the Illinois State Employment Service. In recent years he has been a part-time consultant for the State of Illinois Division of Vocational Rehabilitation.

Born in Waterman, Ill., in 1911, Watson earned his bachelor's degree from the University of Illinois before the war. He attended night classes at Northwestern University from 1947 to 1950 when he enrolled at Illinois Tech. He was awarded his master's degree in 1952 at IIT.

Watson and Mrs. Shurrager plan to present their testing program to the American Foundation for the Blind for possible development by that organization

Watson, who lives at 103 Elm Ave., North Aurora, Ill, plans to continue his work with the blind in the Chicago area. He also hopes to continue developing additional tests for the unsighted as an aid in placing them in jobs for which they are best suited.

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R RELEASE: At Will

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Dr. Leonid V. Azároff has been named senior scientist at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Promotion of the research physicist to one of the top scientific positions at the Foundation has been announced by Dr. Leonard Reiffel, manager of the ARF physics research department.

Nationally recognized for his work in x-ray diffraction and crystallography, Azároff currently is completing a book, co-authored by M.J. Buerger, on "The Powder Method in X-Ray Crystallography."

Azároff joined the Foundation in 1953 as an associate physicist and was promoted to research physicist in 1955.

A cum laude graduate of Tufts College, he received his B.S. degree in physics in 1948. He was granted a doctorate in crystallography from Massachusetts Institute of Technology in 1954.

Azároff was engaged in infra-red research while serving in the U.S. Army from 1944 to 1946. He also has worked as an assistant engineer at Raytheon Manufacturing Co. and as research assistant at MIT.

He is a member of the American Crystallographic Association, American Mineralogical Society, American Institute of Physics, American Physical Society, Sigma Xi scientific honorary society, and Sigma Pi Sigma, physics honorary society.

Azároff is married and lives at 7537 S. Yates Blvd., Chicago.

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7/17/56

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R RELEASE: At Will

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Dr. C. Arne Arenberg, a specialist in physical chemistry and thermodynamics, has been promoted to senior scientists at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Arenberg joined the Foundation as a physical chemist in 1953. He previously had served as technical research advisor to the Catalytic Construction Co., Philadelphia, and taught at Roosevelt University.

He received his doctorate in physical chemistry from Illinois Institute of Technology, a master's degree from the University of Chicago, and a B. S. degree from Lewis Institute.

At ARF, Arenberg has worked in areas of high energy fuels, application of ceramics to nuclear problems, and development of new combinations of metals and ceramics.

Arenberg, who lives at 1522 Brummel St., Evanston, Ill., is a member of the American Chemical Society, the American Association for the Advancement of Science, and Sigma Xi.

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7/19/56

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OR RELEASE: Friday, July 20, 1956

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Scientists at Armour Research Foundation of Illinois Institute of Technology will estimate the loss of life and property in today's mock hydrogen bomb explosions in Chicago.

The Foundation is making an appraisal of the hypothetical damage as a public service at the request of Anthony J. Mullaney, director of the Chicago Civil Defense Corps, which is participating in "Operation Alert 1956", national civil defense exercise.

The team of ARF scientists will be led by Francis B. Porzel, senior science advisor at the Foundation, who has originated much of the shock and blast wave theory as known in the United States today. Assisting Porzel will be Leo A. Schmidt, senior research engineer at ARF, and Robert Calvin and Eugene Sevin, research engineers.

At precisely 12:45 p.m. today the city will be hit by two mock hydrogen bombs. One of the bombs will be an air burst and the other will explode at ground level. Locations of the strikes are contained in sealed orders that will not be opened until the time of the explosions.

The mock bombs that are to be dropped on Chicago are of five megatons intensity each. One megaton is equivalent to one million tons of TNT, Porzel said.

"After civil defense officials tell us the locations of the bomb explosions we will be able to make an appraisal of the damage that might have occurred in Chicago if the bombs had been real," Porzel stated.

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OR RELEASE: At Will

From: Walter Yurk
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Five new faculty members have been appointed at Illinois Institute of Technology effective Sept. 1, President John T. Rettaliata has announced.

They are: Dr. Natalis H. Polakowski, associate professor, metallurgical engineering; Dr. Linvil G. Rich, associate professor, civil engineering; Dr. Ti Yen, assistant professor, mathematics; Dr. Curtis N. Sandage, instructor in biology; and Seymour Gray, instructor in accounting.

Polakowski, 344 Salk Trail, Park Forest, Ill., was awarded his doctor's degree in 1952 from the University College of Swansea in Wales. Other degrees were received by him from universities in Poland.

Rich, Radford, Va., was granted his doctorate in biochemistry in 1951 from the Virginia Polytechnic Institute. He was awarded his bachelor and master's degrees there in 1947 and 1948, respectively.

A doctor's degree was awarded to Ti Yen, Bethlehem, Pa., in 1954 by the University of Illinois. He received his master's degree there in 1950 and his bachelor's degree in 1944 at the Chiao-Tung University, Shanghai, China.

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Sandage, 315 W. Geneva Rd., Wheaton, Ill., was granted his doctorate in 1950 at Ohio State University and received his master's degree in 1947 from Miami University, Oxford, Ohio, and his bachelor's degree there in 1945.

A master's degree was granted to Gray, 9446 N. Latrobe Ave., in 1954 from De Paul University. He was awarded his bachelor's degree in 1948 at the University of Illinois.

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OR RELEASE: At Will

From: Frank Judd
CAlumet 5-9600
Ext. 546

The 19th annual American Power Conference, sponsored by Illinois Institute of Technology, in cooperation with 14 universities and nine technical societies, will be held at the Hotel Sherman, Chicago, on March 27-29, 1957.

The conference, which yearly attracts some 3,000 business and industrial executives, engineers, educators, and government officials, provides a forum for the discussion of problems and exchange of information concerning the electric power industry and associated activities.

The universities cooperating with Illinois Tech in sponsoring the 1957 conference are: Iowa, Iowa State, Michigan State, Northwestern, Purdue, Illinois, Michigan, Minnesota, Wisconsin, Texas A. & M., New York, California Institute of Technology, Georgia Institute of Technology, and Massachusetts Institute of Technology.

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OR RELEASE: Monday,PM's, July 23, 1956

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

Mexico City, Mexico--The current trend towards a more vigorous research and development program in Mexico will assure industrial progress in the years ahead.

This is the predition of Dr. Haldon A. Leedy, director of Armour Research Foundation of Illinois Institute of Technology, Chicago.

Leedy was one of four American research experts who spoke here today (July 23) before the Mexican Industrial Development and Research Seminar at the Industrial Productivity Center.

Sixty Mexican industrialists attended the seminar arranged through the Council for International Progress in Management in cooperation with the U.S. International Cooperation Administration.

"As research and development gains momentum in Mexico, and as the local industries apply the results of research and development," stated Leedy, "Mexico surely will derive the many benefits of research."

He listed these benefits as new industries, new processes,new and improved products, a fuller utilization of raw materials, and "above all, greater return on investments."

Leedy cited syntex--the process being used to produce cortisone derivatives from local materials--as an excellent example of a major industry created in Mexico through research.

7/20/56 -more-

"The dry tortilla flour developed at the Instituto Mexicano de Investigaciones Technologicos is typical of the contributions that can be expected from research organizations," he added.

(Instituto Mexicano de Investigaciones Technologicos was founded in 1950 by the Banco de Mexico with the aid of Armour Research Foundation for the specific purpose of encouraging industrialization through research and development.)

Leedy pointed out that the greatest increases in productivity have taken place in the industrial countries.

"The last 50 years have seen a 2 per cent average annual increase in output per man-hour in the United States," he observed.

"And there are indications that even greater increases are forthcoming," Leedy added. "Since 1947, for example, American productivity has risen nearly 4 per cent annually."

The most important reason for these remarkable advancements in the world, and in the United States in particular, according to Leedy, is technology, "fed by the fruits of industrial research and development."

Increasing population and the expansion of industry brought about the need for a steady stream of new and improved materials, processes, and products, he explained.

It was during this period of need--in the latter part of the 19th century--that organized research and development came into existence in the United States and the other more advanced industrial countries.

"This was the beginning of the eclipse of the independent inventor," Leedy commented.

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In the years that followed, scientific inquiry was placed on a more formal basis, with much of the research and development being carried out in company and universities laboratories.

Since then, it was pointed out, there has been a steady growth of extensive research programs in government laboratories, by trade associations, and at independent research organizations.

-vjd-

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OR RELEASE: Immediate

From: Sara Leonard
CAlumet 5-6900
Ext. 2213

Chicago--Starting salaries for engineers continue to climb.

Salaries received by 1956 graduates at Illinois Institute of Technology have reached an all-time high, according to figures compiled by Earl C. Kubicek, director of alumni relations and placement.

"Starting salaries are still spiraling," Kubicek said. "This year's engineering graduates are earning an average of $391 per month as compared with the 1955 average of $383."

The average starting salary has increased every year since 1938, when we began keeping records, Kubicek stated. It has increased over $100 since 1949 when the average was $282.

Within specific categories of engineering, electrical engineers received the highest salaries, $461 per month as compared with $416 in 1955. Other engineering specialities showing significant salary increases are chemical engineering, which rose from $365 in 1955 to $424, and civil engineering, which jumped from $380 to $434 in 1956.

Kubicek pointed out that the over-all average also included starting salaries for mechanical, fire protection and safety, industrial and metallurgical engineers, as well as beginning architects.

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7/23/56

These figures are based on a 40-hour work week and do not include starting salaries of graduates whose work experience prior to graduation exceeds one year. Neither are statistics included for graduates who studied in the IIT evening division while regularly employed.

Members of the class of 1956 participated in a record 2,454 personal interviews with representatives of industry and government. On the average, each June graduate had personal interviews with eight organizations.

"This compares favorably with the average number of personal interviews for graduates druing the past five years," Kubicek said. "Since 1951, interviews have run from six to eight per graduate."

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R RELEASE: Friday, July 27, 1956

From: Mildred Wyatt
CAlumet 5-9600
Ext. 694

The nation's first laboratory for instruction in shaped diamond tool technology has been established at Illinois Institute of Technology, Chicago.

The laboratory has been assembled by the IIT mechanical engineering department under a $30,000 grant from Industrial Distributors, Ltd., Johannesburg, South Africa, according to Dr. Frank D. Carvin, department director.

A course designed to instruct industry in the construction and use of shaped diamond tools will be offered at Illinois Tech for the first time this fall, Carvin said.

The course will cover selection of diamonds for various uses, sawing and shaping diamonds for tools, and turning, boring, and wheel dressing.

"Diamonds have been used for industrial purposes for many years," Carvin explained, "but their importance in modern mass production manufacturing methods was not fully appreciated until the advent of World War II.

"During that period, the extreme hardness and abrasion resistant properties of the diamond, and the relation of these properties to modern industrial requirements were fully exploited," he said.

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The new laboratory is equipped with a diamond saw, two diamond scaifing machines, a conditioning machine (scaife resurfacing), two Hardinge precision lathes, an optical comparator, miscellaneous hand tools and instruments, and a supply of industrial diamonds for instruction and practice in shaping diamond tools.

The shaped diamond tool technology course will be offered evenings, beginning with the fall semester. Registration will be held Sept. 10 and classes will begin Sept. 17. The course will be offered again during the spring semester and as a special summer course.

Classes will meet twice a week from 6:20 to 9 p.m., with the time divided equally between lectures and laboratory work.

A non-college credit course, the only prerequisites are tool room or machine shop experience and a high school diploma, Carvin explained.

Classes will be taught by Samuel E. Rusinoff, IIT associate professor of mechanical engineering, and Harold C. Miller, diamond technology expert at Armour Research Foundation, an affiliate of Illinois Tech.

For further information on the course, write to: Dr. Frank D. Carvin, Illinois Institute of Technology, Technology Center, Chicago 16, Ill.

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OR RELEASE: At Will

From: Frank Judd
CAlumet 5-9600
Ext. 546

Problems and experiences with medium-sized electronic computers will be the theme of the third annual Computer Applications Symposium, to be held Oct. 9 and 10 at the Morrison Hotel in Chicago.

The symposium, sponsored annually by Armour Research Foundation of Illinois Institute of Technology, is taking a cue from current trends in computing installations.

The rapid increase in the use of electronic computers, according to Harold H. Kantner, program chairman, is being paced by the medium scale instruments, which are being installed at a rate of better than one each working day.

Kantner, supervisor of ARF's mathematical services section which operates the Foundation's computer center, said the number of medium scale computers, or data processing machines, being ordered or installed this year greatly exceeds the larger, more expensive machines.

"The manufacture of computers in 1955, for the first time, attained substantial volume, with output reported to have been more than had been built up to 1955," he said.

"This means," Kantner added, "business and industry now are entering the applications phase in computer development.

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"The symposium program has been arranged in recognition of a heightened interest in the problems and performance of electronic calculators, which came into being only slightly more than a decade ago."

Twelve speakers at the two-day meeting will deal with the utilization of a number of machines in the medium scale, including the IBM 650, Datatron, and others. All speakers will represent organizations in which the instruments are in use.

A broad range of activities will be covered, including the mail order business; petroleum, chemical and aircraft industries; utilities; banking and insurance; heavy and light manufacturing, and educational institutions.

Subjects of special interest will include:

--Problems encountered in installing computers.

--Problems of revising programs to give effect to changes in procedures.

--Use of computers on problems which could not be solved by other methods, as opposed to their use in mechanizing routine procedures, such as payroll.

--Methods of approach and type of personnel required.

The Oct. 9 sessions will be devoted to business and management applications. Speakers the following day will cover engineering and research applications.

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Chairman at the business and management applications sessions will be Dr. Alan J. Perlis, director of the computations center at Carnegie Institute of Technology. A widely recognized computer expert, Perlis formerly was head of the computing laboratory at Purdue University.

Dr. John W. Carr III will preside at the engineering and research applications session on Oct. 10. He is an assistant professor of mathematics at the University of Michigan, and consultant at the university's Willow Run Laboratory, where he formerly supervised the computer facility.

Inquiries concerning the symposium should be directed to J. J. Kowal, Conference Secretary, Armour Research Foundation of Illinois Institute of Technology, 10 W. 35th St., Chicago 16.

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R RELEASE: Immediate

From: Walter Yurk
CAlumet 5-9600
Ext. 547

Last month was the second cleanest June on record in Chicago, but dustfall figures for the first six months of this year leave much to be desired.

June, following the traditional downward trend, had a dustfall of 38.1 tons per square mile, compared to 75.5 in May, according to Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

However, an average of 60.5 tons of dust per square mile fell on the city during the first half of this year, compared to 55.5 tons for the corresponding period in 1955.

The most important reason for this increase in dustfall is the fact that temperatures for the first six months of this year were lower than for the same period last year, Radner explained.

"This," he said, "resulted in more frequent firing of heating equipment and a larger amount of smoke and soot in the air."

The 38.1-dustfall last month was the second lowest June average since the Foundation began taking dustfall measurements in Chicago as a public service in 1946. Only June of last year was lower, when an average of 36 tons of dust fell on each square mile of the city.

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The usual June drop in heating requirements is responsible for the vast difference in dustfall over previous months, Radner stated.

Nearly every collection showed a marked decrease of dustfall in June over the previous month, except for the Loop area. The dustfall average for the Loop was 115.7 tons per square mile, the figure was 78.9 tons in May.

Here is the breakdown for the June dustfall at each station:

Station Address	Ward Number	Total Dustfall
The Fair Store	1	123.8
33 N. LaSalle	1	107.7
Loop Average		115.7
2135 S. Michigan	1	45.9
825 E. 44th	4	29.0
1362 E. 59th	5	55.6
7531 Stony Island	7	58.8
67 W. 113th Pl.	9	26.9
8858 Marquette	10	59.1
2240 W. 37th St.	12	45.0
3105 W. 63rd	13	33.9
62nd and Linder	13	35.5
7559 Eggleston	17	29.5
3608 Ogden	22	17.1
1340 W. Monroe	26	50.0
5055 Fulton	30	30.9
1513 N. Western	32	32.6
5602 Belden	36	39.6
7350 Pratt	41	21.1
54 W. Hubbard	42	43.3
551 Grant Pl.	44	29.6
3532 Sheffield	46	40.9
Average		38.1

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R RELEASE: Immediate

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

A long-range plan for the Chicago area has been advanced that would protect the city from air pollution and aerial attack, and eliminate slums, wild suburbanization, traffic hazards, and parking problems.

Ludwig K. Hilberseimer, city planning professor at Illinois Institute of Technology, outlines a replanned Chicago extending as far west as the Fox River in his book, "The Nature of Cities," published by Paul Theobald and Company, Chicago.

"Chicago has grown so rapidly that there never seemed to be time to consider planning problems and to develop planning principles," Hilberseimer states. "To plan at all seemed impossible, so Chicago grew without plan."

The gridiron, used in determining Chicago's street pattern, has become a guide to chaos, according to Hilberseimer "Streets and alleys occupy more than one-quarter of Chicago's 212 square miles, Since the advent of the automobile, every corner has become a death trap."

Under the planning principles developed by Hilberseimer, which are outlined in his book, the city of Chicago would be transformed into a series of communities of from 50,000 to 70,000 people.

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"Each community would contain residential, recreational, and shopping areas as well as areas for smokeless industry and other commercial enterprises," Hilberseimer writes.

Maintaining that the city could be changed without serious interruption of urban activities, Hilberseimer suggests that as new buildings replace old ones they could be placed in accordance with the city's plans.

"Within 50 years or more Chicago would be rebuilt according to sound planning principles," he said.

As a basis of city planning, whether it be for a hamlet, small city, or metropolis, Hilberseimer has developed the "settlement unit."

The settlement unit is a neighborhood area which includes residences, playgrounds, and a shopping center separated from the working area by a traffic artery. A community is formed by grouping these units together.

"So that dangerous traffic is eliminated, most streets within the settlement units are dead-end streets," Hilberseimer states. "Heavy traffic is encountered only when moving outside the unit to other parts of the city."

Since smokeless industry and commercial areas are coupled with the settlement unit along the traffic artery, people employed there ideally would live in the unit and walk to work.

-more-

"The new communities eventually will be relatively independent of the city," Hilberseimer points out. "The communities will not be all alike; they will vary in structure as well as function. Each community will have its unique problems which will have to be solved individually and locally."

The communities are relatively independent and limited in area so that people who live in them have the opportunity to realize common interests and create a community life which the big city now discourages, according to Hilberseimer.

At the same time, he explains, they can enjoy the advantages of the city because the communities are connected by an integrated transportation system.

In Hilberseimer's re-planned Chicago, the commercial area has been left in its present position, but extended north and south in accordance with its natural trend. The new commercial area would have larger blocks, fewer but more efficient streets, and every building should supply its own parking space.

To protect the city from air pollution, Hilberseimer proposes that manufacturing industries which, by their very nature, pollute the air be located outside the city, east and west of the Fox River and along the Illinois River. Industries related to these factories could be placed here also. The residential areas for these plants would be situated in a triangle near the factories but free from air pollution because of prevailing wind patterns.

The heavy industries in South Chicago and Gary would be left in their present positions. Hilberseimer recommends, however, that they be broken up and interspersed with firebreaks for their protection against aerial attack.

All parts of the city are connected, in Hilberseimer's plan, by a highway and railway system. There is a major north-south line for long distance motor traffic with which all east-west lines connect. The major railroad line is so located that it can serve the entire city without interfering with any particular area. This major line would connect all railroads leading into the city and it would have a central station in the vicinity of Madison Street and Central Park Avenue.

Wide parks serving as firebreaks would separate the communities from each other.

"There is no general agreement regarding the desirable width of such a barrier," Hilberseimer stated. "We do know, however, that the firebreak needs to be as wide as possible if it is to give the city maximum protection against fire hazards connected with aerial bombardment."

"If Chicago were reconstructed after our suggestions, it would become a city healthy and good to live in. It might, indeed, with its parks and gardens, achieve at last its one-time goal and become what it has supposed itself to be--a city in a garden," Hilberseimer concludes in his book.

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ws about the

NATIONAL ELECTRONICS CONFERENCE

HOTEL SHERMAN OCTOBER 1-3, 1956 CHICAGO, ILLINOIS

Immediate
release:

From: Victor J. Danilov
Illinois Institute of Technology
Chicago 16, Calumet 5-9600

Twenty-four technical sessions and three luncheon addresses of general interest will highlight the 1956 National Electronics Conference in Chicago on Oct. 1-3.

The tentative program for the 12th annual conference features approximately 100 papers on electronic research, development, and application, according to L. T. De Vore, program chairman.

More than 10,000 persons are expected to attend the three-day technical meeting and exhibition--having "Fifty Years of Progress Through Electronics" as its theme--at the Hotel Sherman.

Principal addresses will be given by Dr. John P. Hagen, director of the "Vanguard" project at the Naval Research Laboratory, Washington: Dr. Frederick L. Hovde, president of Purdue University, Lafayette, Ind., and Dr. Herbert Scoville Jr., assistant director of the U.S. Central Intelligence Agency, Washington.

Hagen will discuss earth satellites and space travel at the Monday luncheon, while Scoville will compare United States and Russian technical education policies at the Wednesday luncheon. Hovde's Tuesday luncheon subject will be announced later.

Another feature of the conference will be three half-day educational sessions, dealing with information theory, radio isotopes, and solid state.

"The tutorial phase of the program is designed to provide a rounded picture of the newest developments in three important areas of the electronics field," De Vore pointed out. -more- 7/26/56

Chairmen of the educational sessions will be: Prof. R. M. Fano, Massachusetts Institute of Technology, Cambridge, Mass., information theory; Dr. Leonard Reiffel, Armour Research Foundation of Illinois Institute of Technology, Chicago, radio isotopes, and J. P. Jordan, General Electric Co., Syracuse, N. Y., solid state.

The opening day's technical sessions will concern components and materials, instrumentation, measurements, receiver techniques, data storage systems, servomechanism theory and applications.

On Oct. 2, the technical program will deal with information theory applications, magnetic amplifiers, solid state devices and applications, network and filter theory, data processing systems, microwaves, and radio isotopes.

The conference will conclude on Oct. 3 with sessions relating to solid state, high power audio systems, network synthesis, antennas, quality control and reliability, automation techniques, medical electronics, and pulse techniques.

The Midwestern Simulation Council will hold a concurrent session on "Simulation of Hydraulic Systems" on the afternoon of Oct. 3 for those specializing in this field.

A record 240 commercial exhibits also will be displayed at the conference. The is 54 more than the previous high set last year.

Most of the nation's leading electronics manufacturers and research laboratories will have exhibits at the conference, explained Gordon J. Argall, exhibits chairman.

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Advance registrations now are being accepted for the conference. The $3 registration fee covers attendance at all technical sessions. Attendance at the luncheons and NEC party is optional. There is a special $19.50 rate which includes all conference activities.

Advance registrations may be made until Sept. 15 through the Executive Secretary, National Electronics Conference, 84 E. Randolph St., Chicago 1, Ill. Hotel reservations should be made directly with the hotel.

The NEC is sponsored annually by the American Institute of Electrical Engineers, Institute of Radio Engineers, Illinois Institute of Technology, University of Illinois, and Northwestern University.

Also participating in the conference are Michigan State, Purdue, Michigan, and Wisconsin universities, as well as the Radio-Electronics-Television Manufacturers Association and Society of Motion Picture and Television Engineers.

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For further information on this release, contact:
Frank Judd, Ext. 546

RELEASE: At Will

Proceedings of the National Industrial Research Conference, held in Chicago April 18 and 19 under sponsorship of Armour Research Foundation of Illinois Institute of Technology, now are available.

Copies, priced at $6 each, may be obtained from J. J. Kowal, conference secretary, at the Foundation's main office at 10 W. 35th St., Chicago 16, Ill.

The book reproduces in their entirety all of the 12 papers presented by recognized leaders in research, finance, business, and industry, as well as a welcoming address by Mayor Richard J. Daley of Chicago.

All stress the practical considerations involved in industrial research and development, and the profit motive in research.

The proceedings include addresses given by:

Mervin J. Kelly, president, Bell Telephone Laboratories; Albert L. Raymond, vice president and director of research, G. D. Searle and Company; Robert B. Taylor, director, Structural Clay Products Research Foundation; Haldon A. Leedy, vice president and director, Armour Research Foundation; Herbert P. Buetow, president, Minnesota Mining and Manufacturing Company; George G. Ensign, director of research, Elgin National Watch Company.

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LED: 7/31/56

S. J. Begun, director of marketing, Clevite Corporation; Elisha Gray II, president, Whirlpool-Seeger Corporation; Winthrop H. Smith, managing partner, Merrill Lynch, Pierce, Fenner and Beane; Roland P. Soule, vice president, Irving Trust Company; William E. Hanford, vice president, W. M. Kellogg Company, and Clifford C. Furnas, assistant secretary of defense for research and development.

The 1957 National Industrial Research Conference is scheduled for next April 23 and 24 in Chicago.

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R RELEASE: At Will

Four courses in food engineering will be offered in the evening division this fall at Illinois Institute of Technology, Chicago.

They will deal with food packaging materials and methods, public health aspects of food engineering, food engineering unit operations, and food engineering laboratory.

Of special interest to individuals associated with packaging materials and related industries is a graduate course in food packaging materials and methods.

The class will be conducted as a series of lectures by outstanding men in the packaging fields and will be open to both graduate students and people from industry who wish to audit the course.

Topics to be covered in the course include glass, fiber, and metal containers; the use of plastic and foil packaging materials, design and merchandising aspects of food packaging; managerial and control problems involved in packaging, and other related subjects.

The course will be held every Wednesday from 6:20 to 9 p.m.

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The other three classes will be held on Saturday. The course on public health aspects of food engineering from 8:10 to 10 a.m.; food engineering unit operations, from 9:10 a.m. to 2 p.m., and food engineering laboratory, from 10:10 a.m. to 1 p.m.

Registrations for undergraduates will be held Sept. 10 and 11, from 6 to 8 p.m., and for graduates on Sept. 14 from 6 to 8 p.m., in the IIT Chemistry Building, 33rd and Dearborn Sts. Classes will get under way the week of Sept. 17.

Further information about the courses can be obtained by writing the Food Engineering Department, Illinois Institute of Technology, 3300 S. Federal St., Chicago 16, Ill.

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R RELEASE: At Will

Representatives of management and labor will give their views on technological progress in industry at the opening session of the sixth annual Tool Engineering Conference in Chicago Nov. 2 and 3.

Dr. Harry Osborn, technical director of the Tocco division of the Ohio Crankshaft Co., Cleveland, will present management's viewpoint, and P. L. Siemiller, general vice president, International Association of Machinists, Chicago, will speak for labor.

Their talks will follow an address on "Research and Development for Industry" by Dr. Richard F. Humphreys, assistant director of Armour Research Foundation of Illinois Institute of Technology.

The conference, the theme of which is "New Horizons in Industry," will be held on the Illinois Tech campus.

IIT and Northwestern and Illinois universities are cooperating with the Illinois chapters of the American Society of Tool Engineers in sponsoring the meeting.

The "kick off" session, scheduled for 8 p.m., will be opened by Dale Long, first vice president of ASTE. Dr. F. D. Carvin, director of the IIT mechanical engineering department, will welcome the group.

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President John T. Rettaliata of Illinois Tech will deliver an address at a dinner in the Commons Building, 3200 S. Wabash Ave., on Nov. 3. Prof. K. J. Trigger of the University of Illinois will be toastmaster.

The Nov. 3 morning program, starting at 9 o'clock, will feature panel discussions on "New Cutting Tool Materials" and "Economic Analysis in Machine Tool and Equipment Replacement."

The afternoon will be devoted to panel sessions on "New Developments in Extrusion Methods" and "Automation in the Metal Working Industry."

A luncheon program will include a talk on "Educational Facilities for Tool Engineers" by S. E. Winston, dean of the Illinois Tech evening division; welcoming remarks by Dr. Ralph G. Owens, IIT dean of engineering, and "A Message from ASTE" by Howard McMillen, national president of the society. Richard Miller, chairman of the ASTE Chicago chapter, will be toastmaster.

Inquiries concerning the conference should be addressed to Prof. Samuel E. Rusinoff, Mechanical Engineering Department, Illinois Institute of Technology, Technology Center, Chicago 16, Ill.

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Sara Leonard, Ext. 2213

R RELEASE: Sunday, Aug. 5, 1956

Photography courses for professionals, advanced amateurs, beginners, and movie fans will be offered this fall during the evening at the Institute of Design of Illinois Institute of Technology, Chicago.

The courses will deal with all aspects of the photographic medium--from basic photographic techniques to the exploration of photography as a creative medium.

Registration for fall semester evening courses will be Sept. 10 and 11 from 6 to 8 p.m. in the Student Union Building, 47 W. 33rd St. Courses get under way Sept. 17.

"The Institute of Design's photography curriculum is aimed at developing the interpretative sense of the student while teaching the use of equipment and technique," said Arthur Sinsabaugh, head of the Institute's evening photography program.

In basic photography courses, the beginning student investigates photography as a medium of self-expression. Problems of light, tone, texture, and camera usage are encountered in relation to techniques of exposure, development, printing, and presentation.

The professional photographer who wants to gain a better understanding of photography as a creative medium can participate in a professional seminar directed by commercial photographer, Lyle R. Mayer.

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In the course, professional photographers will experiment with problems of texture, tone, and light, coupled with a study of approaches to subject matter and the expressive and formal factors involved. Prominent professional photographers will serve as guest lecturers.

Photography in visual design is a workshop course designed to stimulate professional visual designers and photographers. Under Sinsabaugh's direction, the class will investigate the photographic image and medium as a designer's tool. Among the projects planned for the class will be experimentation with light and motion, typography, and the light sensitive image as well as negative manipulation.

The history of photography, taught by Arthur Siegel, noted free lance photorapher, will emphasize the creative and sociological aspects of pioneering photographers. Illustrated lectures and discussions will trace the development of photography.

A film series will feature important films in the development of the motion picture. The film series may be taken on either a credit or non-credit basis.

Other commercial photographers on the faculty for the Institute of Design evening photography program are Nicholas G. Dancy, Charles Warstler, and Robert Knille.

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DR RELEASE: At Will

A specialist in polymer chemistry has joined the staff of Armour Research Foundation of Illinois Institute of Technology, Chicago.

He is Dr. George Goldfinger, who brings to the Foundation a wide range of experience in the fields of industrial and academic research and education.

Goldfinger will be engaged primarily in high polymer chemistry research at the Foundation, according to Clark E. Thorp, manager of the chemistry and chemical engineering research department.

Born in Budapest, Hungary, Goldfinger attended the University of Berlin, University of Gottingen, University of Vienna, and University of Liege. He obtained his doctorate from the University of Paris in 1937.

From 1937 to 1940 he was employed in the chemical and wood pulp industries in Rumania. He came to the United States in 1948.

Before he joined the Foundation Goldfinger was professor of chemistry at the University of Buffalo, Buffalo, N. Y. Previous to that he was associated with the U. S. Forest Products Laboratory, the Polytechnic Institute of Brooklyn, and Godfrey L. Cabot, Inc.

He also spent a year in Ahmedabad, India, as a technical expert with the United Nations Educational, Scientific, and Cultural Organization technical assistance program.

AILED: 8/2/56

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Goldfinger is the author or co-author of more than 30 articles in American and European scientific journals. His area of interests is represented by such titles as "Kinetics of Polyreactions," "Kinetics of Copolymerization," "Polyphenly, an Unusual Polymer," "Half Life of Free-Radicals in a Free Falling Stream," and "Adsorption on Carbon Black."

He is a member of the American Chemical Society, the New York Academy of Sciences, the Society of Sigma Xi, and the American Association of University Professors.

-vjd-

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For further information on this release, contact:
Walter Yurk, Ext. 547

R RELEASE: At Will

Chicago--A vacuum furnace--a process that produces a metal free of impurities normally found in air melted ingots--has been put into operation at Armour Research Foundation of Illinois Institute of Technology.

The furnace will enable ARF metallurgists to delve into the techniques and possible application of vacuum metal castings, according to Robert A. Lubker, manager of the Foundation's metals research department.

Essentially, Lubker explained, this new technique gives metallurgists better control over the environment in which the metal is melted and cast.

"There is no chance for oxidation because there is no air in the enclosure in which the melting and casting takes place," he stated. The result is a cast that is "purer" than metal that is melted and poured in the open air.

"We are entering a new metallurgical era where controlled atmospheres are the rule," Lubker asserted.

The ferrous metal capacity of ARF's vacuum melting furnace is 50 pounds.

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AILED: 8/2/56

Besides keeping impurities out of the casting, the vacuum process also gives metallurgists an opportunity to operate without slag, pointed out Gary Steven, ARF senior metallurgist.

"We can start with pure metal or alloy and end up with the same composition," he stated.

There also is no loss in the charge as is caused by oxidation and metal-slag reactions in the air melting technique, Steven said.

Another advantage of the vacuum method, the metallurgist asserted, is that gases can be pumped off continuously as they form above the melt, eliminating another source of impurities.

According to Steven, preliminary experiments have suggested these three advantages of the vacuum cast metal:

--High temperature stress rupture properties are improved.

--Room temperature fatigue characteristics are enhanced.

--Better impact resistance.

Some of the possible applications for metals cast by this method, Steven said, are jet engine components, roller bearings, and other equipment in which high temperature metals are required.

"There exists, however," he pointed out, "a need for basic information on the performance characteristics of the vacuum furnace when it is used for melting ingots from a variety of ferrous and non-ferrous base alloys."

Experiments will be conducted at ARF, Steven said, to resolve these five questions:

1. What is the optimum vacuum for the refining of metals? "This should take into account," the metallurgist declared, "the extreme difficulty of maintaining a vacuum less than 5-10 microns in large systems with continually outgassing charges."

-more-

2. Can tangible benefits be derived from admission to the vessel of argon so that melting occurs under reduced neutral gas pressure?

3. What is the optimum hydrogen deoxidation practice when applied to a variety of alloys contained by different refractory crucibles?

4. How does question No. 3 compare with carbon deoxidation practices where oxygen is removed as carbon monoxide gas?

5. What is the loss of low vapor pressure metals by volatilization from melt?

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RELEASE: Thursday, Aug. 9, 1956

A $750-per-year scholarship bearing the name of Ross D. Siragusa, president of Admiral Corporation, has been established at Illinois Institute of Technology, Chicago.

The scholarship will be put into effect at the start of the school year beginning in September, 1956.

Funds to support the award for an extended period of years were raised by a group of Admiral Corporation distributors and turned over to Siragusa at a recent dinner marking his 50th birthday.

Students qualified to enroll at Illinois Tech who must have financial aid to secure a college education may apply to the Institute's scholarship committee to become candidates for the award.

-vjd-

AILED: 8/6/56

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R RELEASE: At Will

Dr. James E. Ash has been appointed supervisor of the fluid mechanics and fluid power section at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Dr. Vincent J. Cushing, manager of the propulsion and fluid mechanics research department, said Ash will supervise research relating to turbo machinery, combustion, lubrication and bearings, and fluid mechanics problems.

Ash, who joined the Foundation in 1951, received his bachelor's degree from Illinois Tech in 1947, his master's degree in 1948 from California Institute of Technology, and his doctorate from IIT in 1955.

Most of his work at the Foundation has centered around fluid mechanics, three-dimensional cascade problems, and pump and compressor analysis.

Ash is a member of Tau Beta Pi, Sigma Xi, and the American Society of Mechanical Engineers. He lives at 3024 N. Long Ave., Chicago.

-vjd-

AILED: 8/6/56

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Frank Judd, Ext. 546

R RELEASE: At Will

Coordinating research and development planning to meet building industry problems resulting from architectural innovations will be the theme of a Modern Builders Conference in Chicago Dec. 6 and 7.

Appropriately, the conference, dedicated to the advancement of building technology, will be held in the assembly hall of Chicago's new $40 million, 41-story Prudential Building.

The meeting, sponsored by Armour Research Foundation of Illinois Institute of Technology, will be devoted to consideration of research and development from the viewpoint of the architect, the materials manufacturer, the contractor and engineer, and the realtor and building operator.

Two sessions are scheduled for each of the two days. The first day will be devoted to research planning as the architect sees it, architect-builder coordination, and research in structural clay, wood, and concrete products.

Contractor-engineer and realtor-operator problems in material handling, prefabrication, interior surfacing, and services will be considered the second day.

A discussion period will follow each session.

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AILED: 8/7/56

Recent radical changes in building geometry and form have greatly increased the need of industry-wide research and development, according to J. M. Neff, conference chairman.

Noting that while new materials have permitted the use of designs previously impractical, Neff, manager of ARF's ceramics and minerals research department, explained that "the new architecture has imposed problems on the architect, the engineer, the builder, and the owner which are far from being solved."

The Modern Builders Conference is the second annual meeting on building technology to be sponsored by the Foundation.

Inquiries concerning the conference should be addressed to J. J. Kowal, Conference Secretary, Armour Research Foundation of Illinois Institute of Technology, 10 W. 35th St., Chicago 16.

-vjd-

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Sara Leonard, Ext. 2213

R RELEASE: Immediate

A $1,000 scholarship to Illinois Institute of Technology has been awarded to Myron Glickman, 18 S. Central Ave., Chicago, by the Chicago chapter of Institute of Scrap Iron and Steel, Inc.

Established for the benefit of young men or women who are employes or the children of employes of the organization's member firms, the scholarship is designed to aid those who want to prepare for a position in industry.

Glickman, the son of Mrs. Jack Glickman, was graduated from Marshall High School in June. He plans to study mechanical engineering at Illinois Tech.

The scholarship, open to men or women, is granted on a basis of scholastic ability anf financial need.

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AILED: 8/7/56

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Walter Yurk, Ext. 547

R RELEASE: Immediate

Dr. August J. Durelli, internationally known authority on stress analysis, has been appointed professor in the civil engineering department at Illinois Institute of Technology, Chicago.

Durelli also will continue as supervisor of the stress analysis section of the mechanical research department at Armour Research Foundation of Illinois Institute of Technology.

A native of Argentina, Durelli attended the University of Buenos Aires and holds two doctorates, one in engineering from the University of Paris and another in social sciences from the Catholic University of Paris.

He has been a construction engineer in Argentina and a visiting professor at the Ecole Polytechnique of Montreal, Canada. He joined Armour Research Foundation in 1943.

Major contributions have been made by Durelli in several fields, including photoelasticity, grids, brittle coatings, and failure problems. He has been active in pre-stressed and reinforced concrete developments, material testing, and turbine blades studies.

He has written four books and is the author or co-author of some 200 papers on such varied topics as social and political affairs, educational problems, and organization of research.

Durelli, his wife, and their three children live at 60 Riverside Rd., Riverside, Ill.

AILED: 8/7/56

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For further information on this release, contact:
Mildred Wyatt, Ext. 6

R RELEASE: Immediate

An industrial relations expert and management consultant has been named assistant director of Armour Research Foundation of Illinois Institute of Technology, Chicago.

He is Clarence E. Watson, chairman of the department of industrial relations at the Technological Institute of Northwestern University.

In his new position, Watson will administer research program development relations with industrial and government sponsors, according to Dr. Haldon A. Leedy, ARF director.

Prior to joining the Foundation, Watson served on the Northwestern faculty for 15 years. As chairman of the industrial relations department, he was responsible for the administration of the cooperative plan of engineering education and was chief liason professor between the Technological Institute and industry.

Watson was a division sales manager of the Procter and Gamble Co. before joining the Northwestern staff.

He has served as management consultant to the Secretary of Defense, the Standard Oil Co. (Indiana), and the General Electric Co.

A 1936 graduate of the University of Cincinnati, he holds degrees in engineering and business administration.

AILED: 8/7/56

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Watson is a former officer of the American Society for Engineering Education and for five years edited the society's Journal of Engineering Education. He also is affiliated with the Industrial Relations Association of Chicago and Beta Gamma Sigma, national commerce honorary society.

He is a member of the executive board, Evanston Council, of the Boy Scouts of America.

Married and father of four children, Watson resides with his family at 2235 Sherman Ave., Evanston, Ill.

-vjd-

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R RELEASE: At Will

Scientific research is beginning to pay dividends in Burma.

This is the opinion of Dr. Christopher E. Barthel, Jr., assistant director of Armour Research Foundation of Illinois Institute of Technology, Chicago.

Barthel has returned to the U.S. after serving as director-general of the Union of Burma Applied Research Institute since 1953 when the Foundation undertook reorganization and expansion of the Burmese Institute's long-range research and development program and the formation of its present staff.

"Results of the program are starting to show effects on the economy of Burma," Barthel said.

Armour Research Foundation scientists have demonstrated to the government of Burma the value of scientific research for the development of the country, according to Barthel.

A firm foundation for continued growth of scientific and engineering research has been established in Burma, he said, through legislation initiated by the ARF staff.

Primarily a one-product nation, Burma's economy has depended principally on the sale of rice as a cereal grain.

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"Since the research program was established at the Institute," Barthel pointed out, "new rice products and industrial ceramic wares have been developed. A study also is under way to determine the feasibility of producing radioactive minerals for export."

Greatest progress has been made in the development of Burma's rice products program, Barthel reported.

"High quality rice starch and bran oil have been developed," he said, "and the government is now in the process of erecting an oil producing plant."

Rice starch can be used for most things for which corn starch is used, he explained. These things include textile and paper sizing cosmetics, and pharmaceutical products.

"Because it is a whiter and finer grained product," Barthel said, "rice starch has certain applications that make it preferable to corn starch."

Burma also is producing ceramic wares in production quantities as a result of studies by the Institute. Instead of using Burma's large quantities of ceramic raw materials for crude pottery, Burmese manufacturers now can produce quality wares, including table wares, art pieces, and industrial wares such as electric insulators.

Ten new buildings house the laboratories of the Applied Research Institute and three more are under construction. The staff has been expanded from less than 10 in 1953 to more than 200 scientists, engineers, and technicians, trained under Barthel's guidance.

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While in Burma, Barthel served as a member of the president of Burma's Committee on Technical, Agricultural, and Vocational Education and developed the national vocational guidance program.

He was named the only foreign associate of the Burma Research Council and a life member of the Burma Science Association and the Burma Research Society.

Barthel, his wife, and two children have returned to their former home at 1545 Spruce St., Northbrook, Ill.

Barthel is engineering adviser to the Encyclopedia Britannica and formerly was chairman of the National Electronics Conference, president of the Chicago Technical Council, and president of the Northbrook board of library directors and the Community Council of the Northbrook Area.

His memberships include the American Association for the Advancement of Science, American Society for Engineering Education, American Physical Society, Optical Society of America, Physics Club of Chicago, Cook County Public Health Council, Photographic Engineers of Chicago, and the Optical Society of Chicago.

-vjd-

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Walter Yurk, Ext. 547

RELEASE: Immediate

A scholarship has been established at Illinois Institute of Technology, Chicago, in honor of Herman J. Tonn, co-founder and vice president of the Chicago Rivet and Machine Co., Bellwood, Ill.

The scholarship fund was set up by the Rivco Foundation, a philanthropic organization of the company.

Tonn, 400 Washington St., Elmhurst, Ill., helped organize the company shortly after the turn of the century, when he emigrated to this country from Germany. The company manufactures tubular rivets and setting machines.

Recipients of the scholarship will be selected by the Illinois Tech scholarship committee. Preference will be given to Chicago area students who are seeking degrees in mechanical engineering.

-vjd-

AILED: 8/9/56

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Sara Leonard, Ext. 2213

R RELEASE: . At Will

Chicago--Future Huckleberry Finns may seek out their friends for help in building garden fences rather than in painting them because of a new construction block.

The block was designed by Paul G. Priestley, a student at the Institute of Design of Illinois Institute of Technology in Chicago.

Given the problem of creating a building block that could be put together easily, without mortar, to form a decorative wall, Priestley came up with a block shaped much like the letter "H."

The block, which appears as a flat rectangle from the side, and forms an "H" when viewed from the end, interlocks with others to make a sturdy, attractive wall.

"Construction of a low wall is so simple with these blocks that any child who could lift them could build a yard enclosure," said Jay Doblin, director of the Institute of Design. "He would find it much like playing with toy blocks."

In erecting such a wall, the blocks can be arranged in a number of different ways. They can be set on end or laid on one side. The foundation row of blocks can be placed diagonally to the fence line or arranged parallel to it in an overlapping fashion that gives a zig-zag effect.

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AILED: 8/10/56

When the second row of bricks is placed on the first, each brick fits into grooves of the two bricks below, and thus holds the joints together tightly. As each following row locks into the row of blocks below it, a rigid structure results.

To lend variation in pattern and texture, the blocks can be spaced so that there are openings between them. Such an airy effect would unite the yard with the outside and encourage vines to grow over and through the structure.

As part of a class assignment, Priestley first constructed a wooden set of blocks. These first miniature blocks showed the advantages of the design--its ease of construction, pleasing spatial effect, and excellent stability.

Priestley molded a second set of full-sized blocks of plaster. These blocks allowed him to show how a garden fence, ornamental wall, or room divider could be constructed from the "H" shaped blocks.

The plaster blocks tended to be a little heavy and cumbersome to work with, according to Priestley. He said that if the block were molded of a lightweight ceramic material, the average homeowner could handle it easily.

Doblin and Priestley see possibilities for the block beyond the backyard fence.

"The bricks could be set up to make a room divider that could be changed, reshaped, and moved around at a housewife's whim," Doblin said. "At the same time, most arrangements of the blocks would give the wall the stability needed where small children might push against it."

-more-

"If the blocks were molded and glazed in a variety of colors, they might become am important factor in interior and exterior home decoration," Priestley added.

Priestley lives at 1338 Greenleaf Ave., Chicago.

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Walter Yurk, Ext. 547

R RELEASE: Immediate

Arthur G. Dreis has been appointed assistant manager of the chemistry and chemical engineering research department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Clark E. Thorp, department manager, reported that Dreis will coordinate the work of the fine particles, organic and polymer, physical chemistry, and chemical engineering research sections.

Dreis received his bachelor's degree in 1937 from Illinois Institute of Technology. He was senior technical sales engineer for the Hercules Powder Co. from 1937 to 1951, director of the new paper development department for the P. H. Glatfelter Co. from 1951 to 1954, and for the last two years did consulting in paper products.

He joined the Foundation in November of 1955 as a technical consultant in chemistry and chemical engineering research.

Dreis is a recognized authority on problems relating to paper manufacturing and development of coatings for paper products. He also has worked with paints, wax and resin emulsions, adhesives, cosmetics, and graphic arts problems.

Dreis is a member of the American Institute of Chemical Engineers, the Technical Association of the Pulp and Paper Industry, and the Technical Association of the Graphic Arts. He makes his home with his wife and their seven children at 74 S. 7th St., La Grange, Ill.

ILED: 8/13/56

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Sara Leonard, Ext. 2213

R RELEASE: At Will

Chicago insurance men will join the back-to-school parade this fall.

They will be able to enroll in courses dealing with property and casualty insurance designed to help prepare them for professional examinations.

The educational program is offered under the joint sponsorship of Illinois Institute of Technology, the Insurance Society of Chicago, and the Chicago chapter of the Society of Chartered Property and Casualty Underwriters.

Registration will be Sept. 7 from 11 a.m. to 3 p.m. in the 21st floor auditorium, Insurance Exchange Building, 175 W. Jackson Blvd., and Sept. 10 and 11 from 6 to 8 p.m. in the Illinois Tech Chemistry Building, 33rd and Dearborn Sts.

The curricula is designed to raise professional standards by preparing qualified students for the examinations given by the Insurance Institute of America and the American Institute for Property and Liability Underwriters.

Courses will be given under the supervision of John J. Ahern, director of fire protection and safety engineering at Illinois Tech.

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AILED: 8/14/56

Among the 12 evening courses to be offered are: insurance principles and practices, business and insurance law, property appraisal, and fire, marine and allied lines: casualty insurance and surety bonding.

For additional information contact the Insurance Library of Chicago, Room 2109, 175 W. Jackson Blvd., or Professor Ahorn, Illinois Institute of Technology, Technology Center, Chicago 16.

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R RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: NEW TYPE PLAY STRUCTURE ERECTED AT TECHNOLOGY CENTER PLAYGROUND BY STUDENTS AT IIT'S INSTITUTE OF DESIGN.

Time and Place: 2:30 P.M. THURSDAY, AUGUST 16, PLAYGROUND AREA BETWEEN MICHIGAN AND WABASH AVES., 31ST AND 32ND STS.

A futuristic playground structure designed and built by students at the Institute of Design of Illinois Tech will be used by Technology Center children for the first time Thursday, Aug. 16.

The unique free-form cavelike structure, the students finishing it, and the children exploring it make excellent picture possibilities.

Under the direction of Cosmo Campoli, prominent Chicago sculptor and instructor at the Institute of Design, students have designed and molded futuristic playground devices for imaginative children's play.

You are invited to send a photographer and/or reporter. I will be on hand to assist.

--Sara Leonard
CAlumet 5-9600
Ext. 2213

ILED:
8/15/56

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R RELEASE: Monday, Aug. 20, 1956

Chicago--Scientists are lowering the boom on those annoying sonic "booms."

Sonic booms are the shock waves or sudden changes in air pressure that are caused when airplanes exceed the speed of sound.

Frequent cases have been reported of jet planes causing sonic (sound) booms that have shattered windows, shaken dishes off shelves, and unnerved citizens.

In an attempt to remedy the situation, an investigation is being conducted into the entire phenomenon of sonic shock waves by the Wright Air Development Center, Air Research and Development Command, Wright-Patterson Air Force Base, Ohio.

Scientists at Armour Research Foundation of Illinois Institute of Technology are carrying out one phase of this study.

The problem is not as widespread now as it may be when aircraft with supersonic speeds become more common, pointed out Dr. Vincent J. Cushing, manager of the Foundation's propulsion and fluid mechanics research department.

It is possible, he said, that the sonic booms could become quite annoying to residents near airfields, especially if the booms are repeated with any degree of frequency.

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ILED: 8/16/56

Scientists probably will not be able to eliminate sonic booms, but they may be able to partially alleviate them, said Dr. Alfred Ritter, supervisor of ARF's aerophysics section.

The boom, he explained, merely follows the laws of nature and is caused by the motion of the airplane and the disturbances it produces in air pressure.

One phase ARF scientists are investigating, Ritter stated, is "the concentration of these disturbances and how the shock waves focus and coalesce."

The speed of sound is 760 miles per hour at sea level. When an airplane achieves a speed faster than sound it creates shock waves which are merely strong sound waves.

It is this sudden change in air pressure, Ritter explained, that occasionally causes windows to shatter and dishes to rattle. And when the ear receives this sudden and unexpected strong sound wave it can be quite frightening and sometimes even painful to the eardrums.

However, people may learn to live with the milder forms of sonic booms just as they have come to accept the once strange and frightening noises of steamboats, trains, and automobiles.

Ritter said some factors which influence the strength of the shock wave on the ground are the speed of the plane, the size and shape of the craft, and the height at which it is flying.

From date gathered in this study, he pointed out, scientists may be able to specify altitudes and speeds for certain meteorological conditions at which damage may be eliminated.

Studies also will be made of the effects of cloud formations and atmospheric conditions on these shock waves.

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Mildred Wyatt, Ext. 694

RELEASE: Immediate

John B. Buckstaff, commercial television producer, has been named supervisor of radio and television at Illinois Institute of Technology, Chicago.

He was named by Victor J. Danilov, manager of public relations, to fill the vacancy left by Kirk H. Logie, now associated with NBC in Chicago.

Buckstaff will be in charge of radio and TV production for Illinois Tech and its affiliate, Armour Research Foundation.

Prior to joining IIT, Buckstaff was producer-director at WTVN-TV, Columbus, O., and WCPO-TV, Cincinnati, O. He also has been associated with WTVP-TV, Decatur, Ill., and radio station WAND, Canton, O.

A native of Cleveland, O., Buckstaff was graduated from DePauw University and received his M.A. degree in radio and television from Northwestern University. He served in the U.S. Army for two years.

Buckstaff resides at 30 W. Chicago Ave.

-vjd-

LED: 8/16/56

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Frank Judd, Ext. 546

R RELEASE: Immediate

Chicago will be the human relations science center of the world for seven days beginning Aug. 30 when some 5,000 psychologists from throughout the United States and several foreign countries converge on the city.

The occasion will be the 64th annual convention of the American Psychological Association to be held at the Morrison and Sherman hotels through Sept. 5.

Few, if any, aspects of human behaviour will be overlooked in the course of nearly 300 sessions scheduled by 17 participating divisions of the APA.

Day-long and evening programs will permit an average of nearly 50 technical, discussion, and social sessions each day except Sunday, Sept. 2, when a special APA Day program will be held at the Medinah Temple.

Many discussions will cover topics of special interest today, according to convention manager George S. Speer, director of the Institute for Psychological Services at Illinois Institute of Technology, Chicago.

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AILED: 8/17/56

Among them he listed reports on current research in such subjects as Negro-white relationships in the south, racial differences in the current social climate, parent-child relationships, the impact of automation on industrial psychology, mental health of elderly people and retirement problems, brainwashing, and how to maintain a democratic way of life to prevent authoritarianism.

Included among many widely known psychologists participating will be Dr. Robert G. Bernreuter of Pennsylvania State University, who pioneered in personality test research and devised one of the two or three best known methods; Dr. John C. Flanagan, president of the American Institute for Research and director of aviation psychology during World War II, and Dr. Otto Klineberg, Columbia University, whose research led to rejection of the idea of hereditary differences in intelligence of racial groups.

Other leading participants will include Dr. Carl R. Rogers, University of Chicago, world authority on non-directive counseling to help patients solve their own problems; Dr. Marie Skodak, University of Minnesota, leader in the field of child psychology; Dr. Alvin Zander, University of Michigan, known for group psychology research, and Dr. John Riess, London, head of the World Mental Health Federation, who will attend as an observer for the British Psychological Association.

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The APA Day program will feature addresses by Hans Selye, director of the Institute of Experimental Medicine and Surgery, University of Montreal, and Dr. Theodore M. Newcomb, University of Michigan, retiring APA president; induction of the new president, Dr. Lee J. Cronbach of University of Illinois, and presentation of the association's first gold medal for distinguished service to psychology. The identity of the recipient will be disclosed at the time of the presentation.

The APA has divisions devoted to the advancement of general psychology, teaching of psychology, experimental psychology, evaluation and measurement, developmental psychology, personality and social psychology, esthetics, clinical psychology, consulting psychology, educational psychology, school psychologists, counseling psychology, psychologists in public service, military psychology, maturity and old age, psychological study of social issues, and industrial and business psychology.

Chicago area psychologists associated with Dr. Speer in the convention planning are: Drs. John W. Cotton, Donald J. Lewis, and Leonard Diamond of Northwestern University; Drs. Maurice O. Burke, William C. Krathwohl, and Willard A. Kerr of Illinois Tech; Dr. Charlotte Altman, Institute for Juvenile Research; Dr. Thomas Kennedy, Loyola University; Dr. Joseph Harney, Wright Junior College; Dr. Sol L. Garfield, Veterans Administration Hospital, Downey, and Dr. Paul C. Greene, University of Illinois.

Prof. Richard P. Youtz, Columbia University, is program chairman.

Registration headquarters will be at the Hotel Sherman.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

William R. Staats, 6230 N. Avondale Ave., Chicago, a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Natural Gas Storage Company of Illinois, Geneseo.

As one of thirteen IIT students employed in the utility gas industry for the summer, Staats will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Staats is the son of Mr. and Mrs. William J. Staats.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Vernon E. Sater, 3737 Genessee St., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Panhandle Eastern Pipeline Company, Kansas City, Mo.

As one of thirteen IIT students employed in the utility gas industry for the summer, Sater will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Sater is the son of Mr. and Mrs. . A. Sturgeon.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Robert B. Rosenberg, 6047 S. Komensky Ave., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Peoples Gas, Light and Coke Company, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Rosenberg will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Rosenberg is the son of Mr. and Mrs. Sidney Rosenberg.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Thomas H. Ohren, 4648 N. St. Louis Ave., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Northern Illinois Gas Company, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Ohren will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Ohren is the son of Mr. and Mrs. Philip Ohren.

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R RELEASE: At will

From: Fare Leonard
CAlumet 5- 600
Ext. 2213

Louis [illegible]. Potempa, 4030 S. Montgomery St., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Northern Illinois Gas Company, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Potempa will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Potempa is the son of Mr. and Mrs. Edward Potempa.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

James E. Kennedy, 6344 S. California Ave., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Peoples Gas, Light and Coke Company, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Kennedy will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Kennedy is the son of Mr. and Mrs. James Kennedy.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

John F. Berninger, 5206 W. Schubert Ave., a mechanical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Natural Gas Pipeline Company of America, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Berninger will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Berninger is the son of Mr. and Mrs. John W. Berninger.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

David A. Worcester, 2210 N. Mannheim Rd., Melrose Park, a mechanical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Northern Illinois Gas Company, Chicago.

As one of thirteen I T students employed in the utility gas industry for the summer, Worcester will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Worcester is the son of Mr. and Mrs. Herbert Worcester.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Robert . Wellek, 5928 . Maplewood Avd., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Natural Gas Pipeline Company of America, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Wellek will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Wellek is the son of Mr. and Mrs. Harry Wellek.

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RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

James E. Weise, 6155 Warwick Ave., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Boston Gas Company, Boston, Mass.

As one of thirteen IIT students employed in the utility gas industry for the summer, Weise will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Weise is the son of Mr. and Mrs. Otto [illegible]. Weise, 6155 Warwick Ave., Chicago.

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R RELEASE: At Will

From: Sara Leonard
CAlumet 5-9600
Ext. 2213

Kenneth B. Bischoff, 6119 Eddy St., a chemical engineering student enrolled in the gas technology option at Illinois Institute of Technology, Chicago, has been employed during the summer by the Natural Gas Pipeline Company of America, Chicago.

As one of thirteen IIT students employed in the utility gas industry for the summer, Bischoff will gain practical experience to supplement his academic instruction.

The Institute of Gas Technology, an affiliate of Illinois Institute of Technology, encourages students to work in the gas industry during the summer.

Bischoff is the son of Mr. and Mrs. Arthur Bischoff.

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Mildred Wyatt, Ext. 694

RELEASE: At Will

Three faculty members and a researcher have been appointed to the staff of Illinois Institute of Technology, Chicago.

They are: Robert Henry Kuckelman, technical drawing instructor; Dr. Morris Aderman, psychology instructor; William S. Sherman, product design lecturer, and Edward G. Thurston, research associate at IIT's Parmly Foundation for Auditory Research.

Prior to joining Illinois Tech, Kuckelman was an instructor in mechanical engineering at the University of Connecticut. He also has taught at the University of Kansas and Central Institute of Technology.

A graduate of the University of Kansas, Kuckelman holds a B.S. degree in mining engineering. He is a member of the American Society for Engineering Education.

Aderman joined the IIT faculty after working as a teaching assistant at the University of Texas for two years.

A native of New York City, he received his B. A. degree from Brooklyn College, his M.A. from the University of Oregon, and his Ph.D. from the University of Texas.

Aderman is a member of the American Psychological Association, Sigma Xi, scientific honorary society, and Psi Chi, psychology honorary society.

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Sherman, who is design director at Autopoint Co., will lecture at IIT's Institute of Design. He has been employed as special products engineer at National Presto Industries and as a designer at Stewart-Warner Corp. and Low Cost Modern Co.

A native Chicagoan, Sherman received his B.S. degree in mechanical engineering from Purdue University and his B. S. degree in product design from Illinois Tech. He is a member of Industrial Designer's Institute.

Sherman resides at 7355 N. Winchester Ave., Chicago.

Thurston will be engaged in acoustical research at the Parmly Foundation where he has been working since February on a special fellowship arrangement.

Formerly a research physicist at Armour Research Foundation, an affiliate of Illinois Tech, Thurston has been associated with Clevite Brush Development Co.; Battelle Memorial Institute, Naval Ordnance Laboratory, Rockwell Manufacturing Co., and Sperry Products, Inc.

A graduate of Carnegie Institute of Technology, Thurston holds an M.S. degree in electrical engineering and currently is working toward a Ph.D. degree at Illinois Tech. He is a member of Sigma Xi.

Thurston resides with his wife and child at 3100 S. Michigan Ave., Chicago.

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Frank Judd, Ext. 546

RELEASE: At Will

Hydraulic applications in the design and operation of nuclear reactors will be discussed by three atomic energy specialists at the 12th annual National Conference on Industrial Hydraulics to be held in Chicago Oct. 18 and 19.

Dr. Richard F. Humphreys, assistant director of Armour Research Foundation of Illinois Institute of Technology, will speak on "Reactor Principles and Types." He was instrumental in initiating the research reactor program at the Foundation.

Frank R. Ward, assistant director, atomic energy division of Babcock and Wilcox Co., New York, will describe the 250,000 kilowatt atomic power plant the company is designing and developing for Consolidated Edison Co.

"Reactors of the Future" will be discussed by Stuart McClain, program coordinator, Argonne National Laboratory.

They will address the opening general session of the conference at the Hotel Sherman.

The conference is sponsored by Illinois Tech and Armour Research Foundation, in cooperation with several engineering societies and more than 100 industrial organizations.

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ILED: 8/21/56

Ten technical sessions, devoted to discussions of the latest developments in fundamental and applied phases of industrial hydraulics in other fields, will begin on the afternoon of Sept. 18 and continue through the following day.

The technical sessions program, including titles of papers and authors, announced by conference secretary Raymond D. Meade, director of extension and cooperative education at Illinois Tech, follows:

Oct. 18--Pumps, "Higher Speeds and Pressures for the Hydraulic Pump," Ernest H. Schanzlin, chief engineer, hydraulic and air division, Pesco Products, Borg-Warner Corp., and "A Comparison of Open-and Closed-Center Type Hydraulic Systems," Robert B. Banks, associate professor of civil and science engineering, Northwestern University.

Components and accessories, "Teflon--Use of Teflon Packings and Seals in Hydraulic Applications," E. C. Bertolet, Jr., assistant chief engineer, United States Gasket Co., and "Hydraulic Filters in Fluid Power Installations," O. E. Teichmann, Central Research Laboratory, Borg-Warner, and E. G. Fochtman, research chemical engineer, Armour Research Foundation.

Pneumatics, "Design Factors Involved in a High Pressure Air Coal Blasting Method," Richard J. Bailey, project manager, Cardox Corp., and "Method of Calculation and Measurement of Pressure Drop in Pneumatic Components," M. M. Slawsky, pneumatics laboratory, National Bureau of Standards.

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Servomechanisms and systems analysis, "The Hydraulic Servomotor and its Place in the Age of Automation," Murray Kanes, supervisor of automation, Bendix Research Laboratories; "The Hydraulic Servomotor--Problems in Design and Operation," Gerhard Reethof, chief of research section, and LeRoy D. Taylor, assistant chief development engineer, Vickers, Inc., and "Systems Analysis and the Hydraulic Servomotor," William W. Seifert, director, dynamic analysis and control laboratory, Massachusetts Institute of Technology.

Oct. 19, morning--mobile equipment, "Power Steering for Off the Highway Vehicles," Ralph M. Lehman, assistant sales manager, Ross Gear and Tool Co., Inc. A second paper will be announced later.

Automatic machine tools, "Hydraulic Control of Automatic Mass Production Tools," a motion picture and discussion by Ernest J. Svenson, A. B. Riddiford, Jr., and others from John S. Barnes Corp.

Aircraft systems, "Vapor-Liquid Ratio Meters for Aircraft," Richard K. Stoms, project engineer, Cincinnati division, Bendix Aviation Corp., and "High Temperature Hydraulics in Airborne Equipment," Duncan B. Gardiner, director of research and development, and Frank L. Moncher, chief engineer, airborne products, Vickers, Inc.

Oct. 19, afternoon--Hydraulic fluids, "Do You Need Fire Resistant Hydraulic Fluids in Your Plant?", George M. Woods, special engineer, Factory Insurance Association; "Fire Hazard Evaluation of Hydraulic Fluids," A. P. Matson, managing engineer, chemical department, Underwriters' Laboratories, Inc., and "ASTM (American Society for Testing Materials) Looks at Fire Resistant Hydraulic Fluids," William H. Millett, sales manager Ucon Products division, Carbide and Chemicals Co.

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Presses, "Design and Circuits of Small Hydraulic Presses," Robert Krebs, general sales manager, and Carl W. Lindhal, executive assistant to director of engineering, Denison Engineering Co. Another paper, to be announced, will complete the session on presses.

Automotive, "Development of a Hydraulic Starter for Cranking Diesel Engines," John H. Smith, section head, hydrostarter engineering, aeroproducts operations, Allison Division, General Motors Corp., and "Torque Converters for Commercial Application," R. M. Tuck, development engineer, transmission engineering division of the Allison Division.

The program includes also a luncheon each day, and an all engineers' dinner on Oct. 18.

The cooperating engineering socie ties are: Illinois section of American Society of Civil Engineers; Western Society of Engineers; American Society of Lubrication Engineers; National Fluid Power Association; the Chicago sections of the American Society of Mechanical Engineers, Society of Automotive Engineers, American Institute of Chemical Engineers, and Institute of Aeronautical Sciences, and the Chicago chapters of American Society of Tool Engineers and Illinois Society of Professional Engineers.

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Walter Yurk, Ext. 547

RELEASE: Immediate

Last month was the cleanest July on record in Chicago.

The reason?

The Windy City was not as windy as it normally is.

Only 35.4 tons of dust per square mile fell on the city last month, according to Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

That figure compares to a reading of 42.3 tons of dust per square mile for the corresponding period last year and an average of 38.1 tons for June of this year.

The dustfall for last month was the lowest for any month since September of 1952 when the city also had a reading of 35.4 tons per square mile.

The all-time low since the Foundation began measuring and analyzing Chicago dustfall as a public service in 1946 occurred in September 1950 when 33.9 tons of dust fell on each square mile in the city.

The monthly average is about 55 tons per square mile and the highest single month on record for Chicago was a dustfall reading of 103 tons in March 1954, Radner pointed out.

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AILED: 8/22/56

Normal rainfall during July washed a good deal of dust off streets and sidewalks into the city's drainage system, which was one factor in keeping dustfall at a minimum, Radner said.

The wind was out of the east and northeast a good percentage of the time during the month and, therefore, did not carry as much dust as do prevailing south and west winds.

But the single most important reason for the light dustfall was the lack of normal brisk winds. High winds stir up the dust and pick it up from the ground and blow it around; there were few dust-stirring winds during July.

Here is the breakdown for the July dustfall at each station.

Station Address	Ward Number	Total Dustfall
The Fair Store	1	62.1
2135 S. Michigan	1	53.3
825 E. 44th	4	81.4
1362 E. 59th	5	18.7
7531 Stony Island	7	50.4
67 W. 113th Pl.	9	26.3
8858 Marquette	10	27.5
3105 W. 63rd	13	25.8
62nd and Linder	13	26.8
7559 Eggleston	17	45.2
1340 W. Monroe	26	33.0
5055 Fulton	30	28.3
1513 N. Western	32	17.7
5602 Belden	36	40.8
3312 Belle Plaine	40	24.4
7350 Pratt	41	14.2
54 W. Hubbard	42	28.7
551 Grant Pl.	44	48.7
1622 Pratt Bl.	49	26.5
Average		35.4

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Walter Yurk, Ext. 547

RELEASE: 5 p.m. (CDT) Tuesday, Aug. 28, 1956

Aberdeen Proving Ground, Md.--A new rapid-firing 20 millimeter weapon, one of the first specifically designed for supersonic jet aircraft, was unveiled here today by the U.S. Army and Air Force.

The cannon was developed by General Electric's Aeronautic and Ordnance department under the sponsorship of the Army Ordnance and with technical supervision from the Springfield (Mass.) Armory.

Armour Research Foundation of Illinois Institute of Technology, Chicago, assisted in the development of the new weapon, named after Vulcan, ancient Roman god of fire.

ARF engineers analyzed the power requirements of the weapon, according to Dr. G.A. Nothmann, manager of the Foundation's mechanical engineering research department.

The study at ARF included the determination of power losses due to friction, vibration studies of the barrel cluster, dynamic analysis of acceleration, and the consumption by the different components of power supplied to the weapon.

Armour Research Foundation is now working on the development of improved components for the weapon under a contract from the Army, Nothmann stated.

Development of the new 20 millimeter cannon was prompted by the tremendous increase in speed of modern jet aircraft, army officials said.

ILED: 8/28/56

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Until the development of Vulcan, armament fire power rates had lagged behind the speeds of jet aircraft.

"Vulcan now fulfills the requirement of a weapon capable of firing at an extraordinarily high rate in the short time available to shoot at fast moving targets," Nothmann pointed out.

The new 20 millimeter cannon has "borrowed" two design features from the original Gatling gun, patented in 1862. Both guns have a rotating multi-barreled cluster, and both are externally driven.

External power for the Gatling gun came from human energy as the operator turned the crank. The Vulcan gun is externally powered by either electricity or hydraulic fluid.

Engineers and ordnance officers made a study of every machine gun mechanism patented in the United States. The Gatling gun design was selected because its rotating cluster of barrels offered the necessary characteristics for an extremely high rate of fire.

The Vulcan gun is simple to operate and maintain, and can be field stripped and reassembled in less than 30 minutes, according to its designers.

It has undergone test firing at General Electric's outdoor firing range in Burlington, Vt., and the Air Force's Armaments Testing Center at Eglin Air Force Base, Fla., as well as at various Army Ordnance facilities. The Air Force also is testing the new automatic cannon in some of its jet aircraft.

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R RELEASE: At Will

Chicago--Don't expect any miracles from titanium--the material that's been touted as the miracle metal.

To be sure, titanium, new and exciting member of the metals family, is assured of a prominent role in the world of metals. But like all other metals it, too, has its limitations.

That's the conclusion of a survey conducted by Armour Research Foundation of Illinois Institute of Technology for the Titanium Metallurgical Laboratory, Columbus, Ohio, to determine the applicability of titanium in gas turbines for use in airplanes.

Titanium alloys, which are, on the whole, strong and relatively light, cannot withstand as much heat as certain other metals.

The future use of titanium in airplane engines, therefore, may be limited to parts towards the front end of the compressor where temperatures are within the limits of this metal, according to Dr. Donald J. McPherson, assistant manager of the Foundation's metals research department.

"Experience to date indicates that weight reduction can be achieved on parts operating at temperatures up to 750 degrees Fahrenheit," McPherson reported.

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"Therefore, titanium can be used effectively mainly in the compressor end of the engines for blades, disks, rings, spacers, casings, and bearing supports where the temperatures are relatively low."

New titanium alloys now under development are promising and may increase the maximum permissible operating temperature of titanium parts to approximately 1100 degrees F., McPherson pointed out.

Titanium is the fourth most abundant element with structural possibilities in the earth's crust. Only aluminum, iron, and magnesium are more plentiful.

Titanium is relatively light and highly corrosion resistant. Because of the costly process of extracting the metal from its ores, however, not much commercial use has been made of the material.

This investigation was conducted by an ARF research team to obtain data which will aid in estimating the future titanium requirements of the aircraft gas turbine industry, according to R. A. Harmon, Armour Research Foundation research engineer who was in charge of the project.

A secondary objective of the survey, he said, was to point out the data on material properties which are needed for material selection and engine design, but which are not available as yet.

The use of current commercial titanium alloys in aircraft gas turbines can result in a net weight saving when used for parts operating in the temperature range between about 300 and 750 degrees F., Harmon stated, adding:

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"The trend in airplane and engine developments is toward higher speeds and corresponding higher operating temperatures which means that titanium will probably replace the aluminum and magnesium alloys presently being used in the front end of the engine; however, this also means that other materials will probably be favored over titanium in high temperature parts of the compressor."

According to available knowledge, Harmon said, there is little likelihood that titanium base alloys can be developed for use above 1200 degrees F. with strength-density ratios superior to other presently known and current experimental materials.

But it is apparent, he pointed out, that heat treatment can result in strength benefits and steps should be taken to exploit this method of utilizing the full potential of titanium alloys.

Several avenues of development, if successful, would lead to enlarged applications of titanium, he said, including:

--Increased strength at elevated temperatures. Alloys capable of operating up to 1200 degrees F. are desired.

--Development of alloys with improved weldability.

--Improved forming techniques: casting, hot and cold working, and powder metallurgy.

Harmon said other types of airborne power plants--such as ramjets, pulse jets, turbofans, rockets, or nuclear power plants--could quite possible have a decided effect on future titanium requirements.

The project was conducted under a sub-contract with the Battelle Memorial Institute of Columbus, Ohio.

-more-

Assisting McPherson and Harmon on the survey were Dr. David Levinson, supervisor of non-ferrous metallurgy; Dr. Frank A. Crossley, senior scientist; Dr. William Rostoker, supervisor of physics metallurgy; and Robert Lillie, research metallurgist, all of Armour Research Foundation.

-vjd-

from
LINOIS INSTITUTE OF TECHNOLOGY
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Sara Leonard, Ext. 2213

R RELEASE: At Will

An outstanding Canadian student has been awarded a scholarship to the Institute of Design at Illinois Institute of Technology, Chicago.

Rodney Y. Hatanaka, Hamilton, Ontario, a junior majoring in product design, is winner of the BuGay Plastic Products scholarship financed by the Koppers Co., Inc., Pittsburgh, Pa.

A producer of plastics, Koppers sponsors a number of scholarships for industrial design students in the name of companies it supplies. The scholarships are part of a program developed to promote good design and the proper application of plastics in consumer products.

BuGay Plastic Products, Inc. is located at 6901 W. 59th St., Chicago.

A graduate of Westdale Collegiate High School, Hatanaka is the son of Ishimatsu Hatanaka, 75 W. First St., Hamilton, Ont.

-vjd-

AILED: 8/30/56

from
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R RELEASE:

SPECIAL TO THE COMPANY PUBLICATION EDITOR

enterprising employees of the enrolled for evening studies at Illinois Institute of Technology during the 1955-56 academic year.

They are: (see attached list)

In addition to gaining knowledge of value to themselves and the company, they also earned credits which can be applied toward a college degree.

Illinois Tech is the only institution in the Chicago area offering a complete course of evening study in engineering. An evening student can earn a degree in about eight years.

Courses also are offered in arts and sciences, business and industry, and visual communication and product design.

Illinois Tech's evening classes this fall will begin Sept. 17. Evening classes are held Monday through Friday from 6:20 to 9:50 p.m.

Undergraduate students will register from 6 to 8 p.m. Sept. 10 and 11 and graduate students from 6 to 8 p.m. Sept. 14 at the IIT Chemistry Building, 33rd and Dearborn Sts. Late registrations will be accepted until Sept. 28.

Further information on the evening program is available from the IIT Evening Division, 3300 S. Federal St., Chicago 16.

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R RELEASE: At Will

The nation's first course in the preparation and use of diamonds as industrial tools will be offered at Illinois Institute of Technology in Chicago this fall.

The course--a non-credit evening class--is part of the educational program on shaped diamond tool technology established at Illinois Tech by Industrial Distributors, Ltd., of Johannesburg, South Africa.

The course will cover selection of diamonds for various uses, sawing and shaping diamonds for tools, and turning, boring, and wheel dressing, according to Dr. Frank D. Carvin, director of the IIT mechanical engineering department.

Registration will be Sept. 10 and 11 from 6 to 8 P.M. in the Illinois Tech Chemistry Building, 33rd and Dearborn Sts. The class will start Monday, Sept. 17.

The course will include three hours of lecture and three hours of laboratory instruction per week for 15 weeks. It will meet from 6:20 to 9 P.M. High school graduation, or its equivalent, and employment in the machine tool industry are the prerequisites for registration.

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The class will be taught by Samuel E. Rusinoff, IIT associate professor of mechanical engineering. Harold C. Miller, diamond technology specialist at Armour Research Foundation, an affiliate of Illinois Tech, will give some of the lectures.

Laboratory sessions will be held in IIT's new shaped diamond tool technology laboratory. The laboratory was assembled by the Illinois Tech mechanical engineering department under a $30,000 grant from the Diamond Research Laboratory of Industrial Distributors, Ltd.

The new laboratory is equipped with a battery of diamond saws, two diamond polishing machines, a conditioning machine (scaife resurfacing), two Hardinge precision lathes, an optical comparator, miscellaneous hand tools and instruments, and a supply of industrial diamonds for instruction and practice in shaping diamond tools.

For further information on the course, write to: Dr. Frank D. Carvin, Illinois Institute of Technology, Technology Center, Chicago 16, Ill.

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Mildred Wyatt, Ext. 694

R RELEASE: Immediate

Chicago--The second step in a $5 million expansion program will be taken this fall by Armour Research Foundation of Illinois Institute of Technology.

Construction will begin in November on a $575,000 addition to the Metals Research Building, it was announced by William M. Cousins Jr., ARF assistant director.

Rapid expansion in metals research has necessitated construction of the four-story addition at 3350 S. Federal St. on the Illinois Tech campus.

"The volume of metals research at Armour is at an all-time high," Cousins said, "and double the amount of the presently available space is needed to carry out the projects planned by the metals department."

The first building in the Foundation's $5 million expansion program--a $1,250,000 Physics and Electrical Engineering Research Building--was completed earlier this year. It houses the nation's first nuclear reactor for industrial research.

Plans call for the construction of two more buildings and the extension of an existing laboratory building.

When completed in 1966, Armour Research Foundation will have one of the most complete industrial research centers in the world.

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Construction of the extension at the north end of the Metals Research Building is expected to be completed by late spring 1957.

New research equipment, valued at approximately $175,000, will bring the total installation cost to in excess of $750,000, according to Cousins.

The extension will give the metals research department an additional 42,000 square feet of space. It now has 20,058 square feet in the present structure.

The 144-foot addition will be constructed of buff brick, steel, and tinted glass to conform with the general architecture of Technology Center, the name given to the 22-block area comprising the IIT campus.

The extension has been designed by internationally known architect Ludwig Mies van der Rohe, director of the IIT architecture department. Holabird, Root, and Burgee are the assosciate architects.

The basement of the new building will house a creep laboratory, mechanical equipment, and a storage area, Cousins explained.

A reception area and an applied metallurgy laboratory will occupy the first floor, while space on the second floor will be devoted to administrative offices, mechanical metallurgy and electro-chemistry sections.

Space on the third floor will be utilized by the powder metallurgy and nuclear metallurgy sections, while the fourth floor will house the physical metallurgy and non-ferrous metallurgy laboratories.

Space in the extension also will be available for the Foundation's engineering economics and international departments.

-more-

Upon completion of the extension, the present Metals Research Building will contain the welding, foundry, and major heat treatment sections, as well as all special melting facilities such as vacuum melting of high-temperature alloys and arc melting of titanium.

The new addition will be completely air-conditioned with the exception of the precision treatment section. Because of the heat generated by this section, an air-cooling system will be installed instead.

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OR RELEASE: At Will

Two electrical engineers have been named supervisors at Armour Research Foundation of Illinois Institute of Technology, Chicago.

The promotion of Robert M. Bergslien and James M. Deterding to supervisory positions in the electrical engineering research department has been announced by Virgil H. Disney, department manager.

Bergslien has been appointed supervisor of the electric machines, components, and measurements section, while Deterding has been named supervisor of the computer systems section.

Since joining the Foundation in 1951, Bergslien has been engaged in research on paper capacitors, aircraft power systems, components, magnetic amplifiers, and electrostatic applications.

He worked as an application engineer at Allis-Chalmers Manufacturing Co., Milwaukee, before joining the Foundation.

Bergslien is a graduate of Illinois Institute of Technology and a member of the American Institute of Electrical Engineers.

He resides with his wife and three children at 3109 W. 172nd St., Hazelcrest, Ill.

Deterding has participated in research and development of computers, data processing equipment, and systems analysis.

Prior to joining ARF in 1953, he was employed by the A.C. Spark Plug Division, Milwaukee.

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Deterding was graduated "with distinction" from Purdue University in 1950. He served with the U.S. Signal Corps for two years.

Married and the father of three children, he lives at 2548 W. Argyle St., Chicago.

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Sara Leonard, Ext. 2213

OR RELEASE: At Will

An industrial design scholarship has been awarded to John Seres, Chicago product design student at Illinois Institute of Technology.

The Federal Tool Corp scholarship, financed by the Koppers Co., Inc., Pittsburgh, Pa., was awarded to Seres because of his outstanding record as a student at IIT's Institute of Design.

A producer of plastics, Koppers sponsors a number of scholarships for industrial design students in the name of companies it supplies. The scholarships are part of a program developed to promote good design and the proper application of plastics in consumer products.

The Federal Tool Corp. is located at 3600 Pratt Blvd., Chicago.

A graduate of Senn High School, Chicago, Seres is the son of Mr. and Mrs. Julius Seres, 2417 W. Farragut St.

-vjd-

AILED: 9/5/56

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OR RELEASE: Immediate

More than 500 new students at Illinois Institute of Technology will begin a week of "getting acquainted" Sunday, Sept. 9.

Orientation week will open with Dr. John T. Rettaliata meeting new students and their parents at the President's reception from 3 to 5 p.m. Sunday.

The reception will be held in the IIT Commons Building, 3200 S. Wabash Ave., Chicago.

During the week, orientation activities for freshmen and transfer students will include meetings with faculty and students, counseling on study and registration problems, and the taking of aptitude and placement examinations.

On the lighter side, orientation activities include a variety show, activities meetings, dances, and fraternity and sorority rushing.

Sponsored semiannually by the Illinois Tech Alumni Association, the President's reception gives new students and their parents an opportunity to meet IIT department chairmen and deans, as well as administrative officials.

Harold C. Mueller, president of the alumni association, with Mrs. Mueller and Mrs. Rettaliata, will complete the receiving line.

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OR RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: PRESIDENT'S RECEPTION FOR NEW ILLINOIS TECH STUDENTS AND THEIR PARENTS

Time and Place: 3 P.M. to 5 P.M. SUNDAY, SEPT. 9, COMMONS BUILDING LOUNGE, 3200 S. WABASH AVE.

Dr. John T. Rettaliata, president of Illinois Institute of Technology, will receive new students and their parents at the President's reception, Sunday Sept. 9. More than 800 students and their parents have indicated that they will attend.

Sponsored semiannually by the Illinois Tech Alumni Association, the reception will be held from 3 to 5 p.m. in the lounge of the Commons Building, 3200 S. Wabash Ave.

Harald C. Mueller, president of the alumni association, with Mrs. Mueller and Mrs. Rettaliata, will complete the receiving line.

Department chairmen, deans, and administrative officials will be present to meet the new students.

I will be on hand to assist your representative.

Sara Leonard
CAlumet 5-9600
Ext. 2213

9/6/56
AILED:

from
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For further information on this release, contact:
Frank Judd, Ext. 546

OR RELEASE: Immediate

The growing problem of noise, and how to silence it or live with it, will be discussed at the seventh annual National Noise Abatement Symposium in Chicago Oct. 11 and 12.

Fourteen papers will be presented, all dealing with different aspects of quieting machinery, factories as a whole, and our environmen in general. The sessions will be held at the Hotel Sherman.

Four speeches during the Oct. 12 morning session will cover some of the legal phases of the noise problem, including hearing loss compensation laws, the use of audiometers, and clinical experiences with automatic audiometers.

Three other half-day sessions will be devoted to machinery and transportation noises and the control of noise through architectura design, according to chairman Guy J. Sanders of Armour Research Foundation of Illinois Institute of Technology, one of the sponsoring organizations.

At the noon luncheon on Oct. 11, Dr. H. D. Neff, of the University of Chicago, will discuss "The Brain and Hearing."

Marvin Camras, senior physicist at Armour Research Foundation and inventor of modern magnetic recording, will give a demonstration on stereophonic sound at the noon luncheon on Oct. 12.

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These discussions on hearing impairment are expected to attract several hundred scientists, engineers, architects, manufacturers, physicians, and civic authorities.

The general topic for the sessions on Oct. 11 will be "Quieting Machinery, the Noise Creator." Sanders will be chairman of the morning session, and Dr. Robert O. Fehr, manager, Mechanical Engineering Laboratories, General Electric Co., will chairman the afternoon meeting.

The topic for the Oct. 12 morning session will be "Hearing Loss Problems" and will be chairmaned by Floyd Frazier, of the National Association of Mutual Casualty Companies.

Hale J. Sabine, of the Celotex Corp., will be chairman of the Oct. 12 afternoon meeting which will be concerned with "Quieting a Noisy Environment."

Here is the complete program for the two-day meeting:

Oct. 11, morning--"Aircraft Noise and Plant Planning and Estimating Noise Levels from Jet Aircraft," Adone C. Pietrasanta, engineer, Bolt, Beranek and Newman, Inc.; "Environment for Measuring Noise," Henry B. Karplus, associate physicist, Armour Research Foundation.

Oct. 11, afternoon session--"Materials and Techniques for Damping Vibrating Panels," Richard N. Hamme, research physicist, Engineering Research Institute, University of Michigan; "Noise Reduction in Pumps and Pump Systems," Norman L. Meyerson, manager, Research and Development Section, Worthington Corp.; "Noise Control by Phase Control of Extending Sources," Dr. G. J. Thiessen, principal research officer, Canadian National Research Council; "Acoustical Design of Enclosures for Power Transformers," Dr. Thomas Northwood, head of the building physics section, Canadian National Research Council

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Oct. 12, morning--"Audiometers and Their Use," Ralph Allison, owner of Allison Laboratories, Inc.; "A Mobile Laboratory for Group Hearing Tests," Dr. Jerome R. Cox, research associate, Central Institute for the Deaf; "Legal Aspects of the Hearing Loss Problems," Noel Symons, attorney, Brown, Kelley, Turner and Symons; "Problems of Industry in a State With Hearing Loss Compensation Laws," Robert A. Ewens, attorney, and executive vice president of the Wisconsin Manufacturers Association.

Oct. 12, afternoon--"Acoustical Engineering Principles for Noise Reduction," Willis M. Rees, product development engineer, Owens-Corning Fiberglas Corp.; "Retaining High Sound Transmission Loss in Industrial Plants," George L. Bonvallet, manager, noise control division, Rysdon Products Co.; "Office and Factory Applications of Partial Enclosures," Dwight Bishop, acoustics engineer, Convair Division, General Dynamics Corp.; "Noise Control for Offices Located Near Production Machines and Mechanical Equipment Spacers," Laymon N. Miller and Ira Dyer, senior engineers, Bolt, Beranek and Newman, Inc.

Dr. Haldon A. Leedy, director of Armour Research Foundation, will give a welcome address at the opening of the two day session.

Symposium co-sponsors along with Armour Research Foundation are Acoustical Society of America, American Society of Safety Engineers, National Noise Abatement Council, American Society of Planning Officials, American Industrial Hygiene Association, and Acoustical Materials Association.

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OR RELEASE: Immediate

Registration for the fall semester at Illinois Institute of Technology, Chicago, will begin Monday, Sept. 10.

Evening undergraduate students will register Sept. 10 and 11 from 6 to 8 p.m. in the Chemistry Building, 3255 S. Dearborn St.

Graduate students in the evening division will sign up for classes during the same hours Friday, Sept. 14.

Undergraduate students attending day classes will register from 8:15 a.m. to 4 p.m. on Sept. 12, 13, and 14. Day graduate students will register Sept. 14 from 1 to 4 p.m. All classes begin Sept. 17.

Estimated enrollment for the freshman class is 510, a slight increase over last year, according to Philip B. Lottich, director of admissions.

New students--freshmen and transfer students--will be introduced to campus life at Illinois Tech during a week-long orientation program beginning Sept. 9 with the President's reception for new students and their parents.

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AILED: 9/7/56

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Mildred Wyatt, Ext. 694

OR RELEASE: At Will

A specialist in electromagnetic apparatus and electronic components assistant manager of the electrical engineering research department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

The promotion of Dr. Harold L. Garbarino to assistant manager has been announced by Virgil H. Disney, department manager.

Garbarino has been supervisor of the ARF electric machines, components, and measurements section since 1954.

In his new position, he will be in charge of operation of his former section and the computer system development and control systems sections of the electrical engineering department.

Garbarino has developed a new method of designing power transformers that promises to help relieve the shortage of engineers. He also holds a patent for developing a method for reducing noise in large transformer cores. He has served as project engineer on investigation of transformers, relays, electrical contacts, and electric power systems.

Prior to joining the Foundation in 1951 as an associate electrical engineer, Garbarino was associated with General Electric Co., Pittsfield, Mass., as a development engineer for 2 1/2 years.

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MAILED: 9/7/56

An honor graduate of the University of Colorado, Garbarino received his M.S. and Ph.D. degrees from Illinois Institute of Technology.

He is a member of the American Institute of Electrical Engineers; Sigma Xi, scientific honorary scoeity; Eta Kappa Nu and Tau Beta Pi, electrical engineering honorary socieities. He also is a member of the program committee for the American Power Conference.

Married and the father of four children, Garbarino resides at 2118 Lincolnwood Dr., Evanston, Ill.

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OR RELEASE: Tuesday noon, Sept. 11, 1956

Rockford, Ill.--Increased efficiency and greater productivity in the research laboratories are the key to future expansion of the American economy, an executive of one of the nation's largest independent research organizations said here today (Sept. 11).

Dr. Christopher E. Barthel, Jr., assistant director of Armour Research Foundation of Illinois Institute of Technology, Chicago, predicted that current scientific and engineering manpower shortages will force government, industry, and research institutions to scrutinize their research operations.

"Actually, we have no choice if the United States is to maintain--and strengthen--its position as a world power," he declared.

Barthel, who spoke before the Rockford Kiwanis Club, said today's frontiers are "neither undiscovered land nor undiscovered mineral resources, but the undiscovered basic laws of science and the applications of these laws."

Describing the last two decades as a "golden age of technology," the research official said "the outstanding reason for our economic growth, and the vital force behind our expanding economy is the unprecedented growth of organized research and development."

Barthel offered several suggestions which he believes will contribute to the development of an efficient research program to achieve increased productivity in research. They were:

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1. Acquire and retain the best creative scientific personnel available.

2. Have a well-planned program for the training and professional development of the entire research staff.

3. Select the best combination of staff talent for each project.

4. Supply adequate tools for the scientist and engineer in the form of good equipment such, as high-speed electronic computers.

5. Make various non-technical services available so the scientist and engineer can use their specialized talents full time.

6. Allow the researcher freedom in the area of scientific thought, but remember that in an efficient organization he must adhere to certain general policies.

7. Provide the researcher with comfortable, well-maintained, but not necessarily expensive, laboratories.

"There is no question that the shortage of technical manpower is this country's greatest obstacle to increased research output in the immediate future.

"With our universities and colleges graduating about 23,000 engineers in the last academic year, and with 15,000 to 20,000 leaving the engineering field annually, it is obvious that this shortage is not going to be alleviated in the near future," Barthel stated.

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As an insight into what research could bring in the future, Barthel mentioned that the last 50 years have seen a 2 per cent average annual increase in output per man hour in this country.

"There are indications that even greater increases are forthcoming," he said. "Since 1947, for example, American productivity has risen nearly 4 per cent a year."

Barthel said that increased research effort has enabled companies to avoid obsolescence, to outdistance competition, and to make greater profits.

"A recent study showed that the industries which spent the most for research and development also had the greatest profit gains. Those industries which spent the least also gained the least," he added.

"The study pointed out that the top three industries which allocated 5.7 per cent of sales for research and development had a 52 per cent gain in profits," Barthel said.

"The middle three industries spent 0.9 per cent on research and had a 9 per cent gain in profits, while the lowest three industries spent 0.2 per cent on research and saw their profits shrink 3 per cent," he stated.

"This study is just one more piece of evidence that research and development are necessary for continued industrial growth," Barthel concluded. "There is an abundance of evidence that research is profitable and that research is so intimately tied to our industrial growth that a producing company that lacks it has little chance to prosper long in the consumer markets."

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R RELEASE: Immediate

New students entering Illinois Institute of Technology are learning the "ins and outs" of campus life in Chicago this week. (Sept. 9-14)

Meetings with faculty members, orientation tests, and social activities are helping some 500 new students become acquainted with the educational and social life at Illinois Tech.

Each new student is part of an orientation group of 20 incoming students directed by a senior counselor. The couselor guides his group through the orientation activities.

The President's reception for new students and their parents kicked off the week's activities Sunday. This was followed by the President's convocation Monday.

Women students also were entertained at a luncheon Monday, while students from foreign countries met with IIT's foreign students adviser.

Monday afternoon men students attended a meeting at which Institute officials explained the ROTC and Selective Service programs at IIT. Later, all new students attended meetings in the departments they have chosen for their major study.

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Morning activities for Tuesday include 9:30 a.m. academic division meetings, the engineering division meeting in the Student Union Auditorium and the liberal studies division meeting in the Student Union Lounge. At 10:15 a.m. new students will meet with their student counselors for informal chats, and at 12:30 p.m. they will be counseled individually by faculty members.

Tuesday afternoon at 2 p.m. the Air Force and Navy ROTC departments will hold an open house to familiarize students with their facilities. At 2:30 p.m., a gay dramatization, "College Do's and Don't's," will be presented in Carman Hall by the Illinois Tech Women's Association.

A comprehensive battery of orientation tests will keep new students busy from 8:30 a.m. to noon Wednesday. At 1:30 p.m. upperclass student leaders will explain student activities in the Student Union auditorium. At 3:30 the auditorium will be the setting for "Spotlight on Fraternities." The program explaining fraternities will be climaxed by tours of fraternity houses, and dinner along fraternity row for men students.

Registration instructions at 9 a.m. in the Student Union auditorium will begin Thursday for new students. After this meeting, student aids and student services will be explained to students.

Fraternity luncheons and tours will follow for the men. The day's climax will be the 3 p.m. variety show in the Student Union auditorium.

Friday, freshman registration begins at 8 a.m. Week-end activities include open house dances Saturday night at IIT fraternities. Social fraternities will entertain students and their parents at open house teas Sunday, Sept. 16, beginning at 2 p.m. Classes begin Monday, Sept. 17.

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Frank Judd, Ext. 546

FOR RELEASE: Immediate

How a computing machine will be used to forecast the outcome of the 1956 presidential election with only partial returns will be explained at the Computer Applications Symposium in Chicago Oct. 9 and 10.

Charles Collingwood, news commentator for the Columbia Broadcasting System, will discuss "The Election and the Univac" at the noon luncheon on Oct. 9.

The conference, which is being sponsored by Armour Research Foundation of Illinois Institute of Technology, will be held at the Morrison Hotel.

Collingwood will reveal how news disseminating agencies will use computing devices in predicting the outcome of the election with early returns.

With only partial vote returns, the Univac was quite accurate in predicting the eventual result of the presidential election in 1952.

Harold H. Kantner, conference chairman and supervisor of mathematical services at Armour Research Foundation, said Collingwood participated in the pioneering phase of this unique application of computers.

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MAILED: 9/10/56

Max A. Woodbury, professor of mathematics at New York University, will speak on "Model-Making Problems in Elections Forecasting" at the noon luncheon on Oct. 10.

Woodbury, who has been consulting statistician for development of election forecasting in 1952, 1954, and 1956, developed many of the formulas and mathematical equations used by the Univac electronic computer.

Twelve other papers will be presented at the two-day conference, all dealing with special applications of computers in business and industry. Session chairmen and speakers will conduct a roundtable discussion at the close of the program on each day of the conference.

Alan J. Perlis, director of the Computation Center, Carnegie Institute of Technology, will be chairman of the Oct. 9 sessions. John W. Carr III, assistant professor of mathematics at the University of Michigan, will be chairman on Oct. 10.

Dr. Haldon A. Leedy, director of Armour Research Foundation, will extend a welcome at the opening of the first day's session. Dr. Joseph C. Boyce, vice president and dean of the graduate school at Illinois Institute of Technology, will welcome the group at the opening of the session the morning of Oct. 10.

Here is the complete program for the conference:

Oct. 9, morning--"Development of a Products Pipe Line Simulator on an NCR 102A," J. H. Mallas, computer applications analyst, Great Lakes Pipe Line Co.; "Applications of the IBM 650 to Stock Brokerage Operations," Victor Lazzaro, methods supervisor, Merrill Lynch, Pierce, Fenner and Beane; "The Elecom 125 in Personnel Classification Research," J. M. Leiman, section chief, statistical methodology and analysis, Personnel Research Laboratory, Lackland Air Force Base.

-more-

Oct. 9, afternoon--"Programming the Datatron for Ordinary Life Insurance Operations," J. S. Hill, second vice president and actuary, Minnesota Mutual Life Insurance Co.; "Manufacturing Data Processing on the IBM 650," H. H. Marlow, Jr., staff assistant, West Pullman Works, International Harvester Co.; "The Univac File Computer Applied to General Accounting Functions," T. R. Lyon, methods analyst, comptroller's staff, Clark Equipment Co.

Oct. 10, morning--"Solution of Electric Rotating Machinery Problems with ALWAC," C. G. Veinott, consulting engineer, Reliance Electric and Engineering Co.; "The IBM 650 Applied to Problems of the Electrical Industry," F. J. Maginniss, manager of special engineering investigations, General Electric Co.; "The NCR 102A as an Aid in Mathematical and Engineering Analysis," E. J. Stewart, assistant professor of mathematics and mechanics, U.S. Naval Postgraduate School.

Oct. 10, afternoon--"Optical Calculations Using the Burroughs E 101," Arthur Cox, optical director, Bell and Howell; "Use of the Datatron in Petroleum Engineering," J. S. Aronofsky, research associate in applied mathematics, Magnoliz Petroleum Co.; "Research Calculations on the Readix Computer," J. K. Beasley, research engineer, Polychemicals Laboratory, E. I. du Pont Co.

-vjd-

from
LLINOIS INSTITUTE OF TECHNOLOGY
35 WEST 33RD STREET TECHNOLOGY CENTER CHICAGO 16, ILLINOIS

Manager of Public Relations: Victor J. Danilov
Serving: Illinois Institute of Technology
Armour Research Foundation of Illinois
of Illinois Institute of Technology
Institute of Gas Technology
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For further information on this release, contact:
Sara Leonard, Ext. 2213

OR RELEASE: At Will

Three new chemistry courses for advanced students will be given this fall in the evening division of Illinois Institute of Technology, Chicago.

These additions to the IIT chemistry curriculum are: seminar on the effect of thermal gradients on the behavior of simple chemical systems, a course in chemical microscopy, and a course in radiochemistr

The seminar on the effect of thermal gradients will be conducted by Dr. Ralph J. Tykodi, chemistry instructor. Emphasis will be on the steady state behavior of simple, one-component systems.

Phenomena such as thermo-osmosis, thermomolecular pressure effects, and steady state vaporization of liquids will be discussed from the viewpoints of classical thermodynamics, irreversible thermodynamics, and the energetics of Bronsted.

Dr. Walter C. McCrone, former senior chemist at Armour Research Foundation of Illinois Institute of Technology, will teach the course in chemical microscopy.

The use of the polarizing microscope, micrometry, qualitative and quantitative analysis, crystal optics and morphology, photomicrography, and other special methods and techniques will be considered.

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AILED: 9/11/56

An associate physicist in the nuclear physics section at Armour Research Foundation, Dr. Paul Y. Feng, will teach the course in radiochemistry. This course is part of a sequence which includes chemical aspects of nuclear energy and radiation chemistry. The properties of radioisotopes, counting, handling, and tracer techniques will be discussed at the weekly class sessions.

The course in radiochemistry meets Wednesday evenings; the other courses meet Saturdays.

-vjd-

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For further information on this release, contact:

R RELEASE:

Memorandum to: CITY AND PHOTO EDITORS

Subject: REGISTRATION OF STUDENTS FOR THE FALL SEMESTER AT ILLINOIS INSTITUTE OF TECHNOLOGY

Time and Place: 8:30 A.M. TO NOON THURSDAY, SEPT. 13, CROWN HALL, 10 W. 34TH ST.

Lines of returning Illinois Tech students will form in the main hall of IIT's Crown Hall, to register for the fall semester.

Over 2,000 students will be signing up for classes in engineering, liberal studies, architecture, planning, design, and home economics. The prospective students consulting with faculty members and planning their study programs make excellent picture possibilities.

You are invited to send a photographer and/or reporter. If you need any assistance, please contact me.

--Sara Leonard
CAlumet 5-9600
Ext. 2213

LED:

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For further information on this release, contact:
Mildred Wyatt, Ext. 694

FOR RELEASE: At Will

A special showing of the world's first nuclear reactor for industrial research will highlight the 1956 Trade Fair of the Atomic Industry in Chicago.

Armour Research Foundation of Illinois Institute of Technology will display its unique reactor facility in conjunction with the week-long fair to be staged Sept. 24-28 at Chicago's Navy Pier.

A series of tours will be conducted for practicing technical and management representatives in the atomic industry, according to Dr. Leonard Reiffel, manager of the ARF physics research department and head of the reactor program.

The trade fair and a four-day conference on management and technology for the atomic industry will be sponsored by Atomic Industrial Forum, Inc., a non-profit association with a membership of more than 400 organizations in the United States and 23 foreign countries.

A model and design drawings of the reactor will be displayed in the Armour Research Foundation booth at the fair. Registration for the special tours will be conducted at the ARF booth.

The tour schedule follows:

Tuesday and Wednesday, Sept. 25 and 26 - 1 p.m.; 2:30 p.m., and 4 p.m.

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MAILED: 9/12/56

Thursday, Sept. 27 - 2 p.m. and 4 p.m.

Friday, Sept. 28 - 10:30 a.m.; 1 p.m., and 2:30 p.m.

Trade fair buses will transport guests from Navy Pier to the reactor site--the ARF Physics and Electrical Engineering Research building, 3440 S. State St.

The Foundation's activities in the atomic energy field will be explained during the tours.

These activities include research in nuclear technology associated with the fields of ceramics, chemistry and chemical engineering, electrical engineering, engineering economics, fuels and lubricants, metallurgy, physics, and mechanical engineering in the areas of mechanisms design, stress analysis, and heat transfer and fluid dynamics.

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Sara Leonard, Ext. 2213

DR RELEASE: Immediate

Mushrooming use of nuclear science in industry--not the mushroom cloud associated with the atom bomb--has resulted in a new course in radiochemistry at Illinois Institute of Technology, Chicago.

The course is being offered in IIT's evening division during the fall semester. It meets from 6:20 to 8 p.m. Wednesdays, beginning Sept. 19. Radiochemistry is part of a sequence which includes courses in the chemical aspects of nuclear energy and radiation chemistry.

Instructor is Dr. Paul Y. Feng, research physicist in the nuclear reactor program of Armour Research Foundation, an affiliate of Illinois Tech.

The course will include applications of radiochemistry to industrial situations, the examination of properties of radioisotopes, and counting, handling, and tracer techniques.

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Mildred Wyatt, Ext. 694

FOR RELEASE: At Will

Electronic computers--sometimes referred to as "mechanical brains--mean different things to different people.

What they are, what they mean, and what they will do, will be explained by computer experts at Armour Research Foundation of Illinois Institute of Technology, Chicago, in a television show Saturday, Sept. 22.

The discussion on computers will be presented on WBBM-TV's "Operation New Horizons" program at 10 a.m. on Channel 2.

Participating in the program will be: Harold H. Kantner, supervisor of mathematical services; Albert K. Hawkes, associate electrical engineer, and James M. Deterding, supervisor of computer systems, all of the Foundation's electrical engineering research department.

The show will be produced by John B. Buckstaff, IIT supervisor of radio and television.

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9/17/56

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Sara Leonard, Ext. 2213

FOR RELEASE: Immediate

Lectures by noted artists and designers will highlight two evening courses to be presented at the Institute of Design of Illinois Institute of Technology, Chicago, this fall.

The two seminars--which are non-credit and open to all interested adults--will deal with contemporary art and design.

Contemporary art lectures will be every other Tuesday from 7 to 9 p.m. beginning Sept. 25. The design talks will be held at the same hour on alternate Tuesdays beginning Oct. 2. All lectures will be in IIT's Crown Hall, 10 W. 34th St.

Lecturers in the contemporary art series will include: Richard Florsheim, painter and lithographer; Allen Frumkin, art gallery proprietor; John Waddell, art educator; Aaron Siskind, photo-artist, and Misch Kohn, visual designer.

Prominent industrial designers representing many areas of applied design will lecture and lead discussions at the design seminar. Included in this group are: Jay Doblin, director of the Institute of Design; Richard E. Baringer, architect; Bruce Beck, package designer; Fred Keck, architect, and Hap Smith and Jean Reinecke, designers.

There are no prerequisites for the courses. Participants may attend both series if they wish. Registration will be at the first lecture of each series.

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Mildred Wyatt, Ext. 694

OR RELEASE: At Will

What is the city of Chicago doing to prevent disasters such as the recent "Skid Row" hotel fires?

"Ear on Chicago," unique radio series presented by Illinois Institute of Technology and radio station WBBM, will try to get the answers on Saturday, Sept. 29.

Narrator Hugh Hill will visit the Fire Prevention Bureau to discuss operations in a program to be presented at 9:30 p.m. on WBBM.

Hill will question Commissioner Anthony J. Mullaney and Capt. Charles Pierce of the Fire Prevention Bureau on its fire inspection activities.

The tape-recorded "Ear on Chicago" show is presented weekly over WBBM and later rebroadcast on several university-operated radio stations.

John B. Buckstaff, IIT radio-television supervisor, is the producer.

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For further information on this release, contact:
Frank Judd, Ext. 546

FOR RELEASE: At Will

Chicago--Seventeen scientists from eight foreign countries will be among 52 leaders in ozone research who will speak at the first International Ozone Conference to be held in the United States.

Altogether, they will present 20 of 60 papers on fundamental and applied chemistry of ozone comprising the conference, scheduled for Nov. 28-30 at the Sheraton Hotel here.

Included in the group from abroad will be three from Germany, two from Switzerland, three from France, three from England, three from Japan, and one each from Holland, India, and Argentina.

The National Science Foundation is cooperating with Armour Research Foundation of Illinois Institute of Technology and other American sponsors in bringing the scientists to America.

The speakers from each of the countries will be:

Germany--Dr. W. Partmann of the State Research Institute for Food Processing, Karlsruhe; Prof. R. Criegee, Institute for Organic Chemistry, Karlsruhe, and Prof. A. Ehmert of Max Planck Institute, Weissenau, an authority on the properties of ozone.

Switzerland--Dr. Albert Torricelli, a consultant on chemistry and hygiene in Berne, and Prof. Emile Briner of the University of Geneva.

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9/18/56

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France--P. Guinvarc'h, chief engineer of the Paris Municipal Water Works; P. Frison of Paris, water filtration plant engineer for Trailigaz, which builds and operates water plants, and Prof. Andre Bernanose of University of Nancy.

England--R. M. Goody, department of meteorology, Imperial College, London; Dr. R. W. Lunt, honorary lecturer on chemical engineering, University College, London, and A. W. Brewer, Clarendon Laboratory, Oxford.

Japan--Hiroshi Otsuki, managing director of Nippon Ozone Co., Tokyo; E. Inoue, Tokyo Institute of Technology, and Y. Miyaka, of the Meteorological Research Institute, Tokyo.

Holland--J. P. Wibaut, director of organic chemistry research laboratory, University of Amsterdam.

India--Dr. N. A. Ramaiah, head of the department of physical chemistry, Indian Institute of Sugar Technology, Kampur.

Argentina--Hans Schumacher, director of the research institute at the University of LaPlata at LaPlata.

In addition, a paper prepared by Prof. L. Mester of the University of Technical Sciences at Budapest, Hungary, will be read.

American participants in the conference will represent a broad range of organizations concerned with developments in ozone research, including colleges and universities, research institutions, industrial concerns,and national and city government.

A major purpose of the conference, according to its chairman, Clark E. Thorp, manager of Armour Research Foundation's chemistry and chemical engineering research department, will be consideration of industrial applications of ozone, both current and potential, as well as the fundamental chemistry of ozone and its biological effects

-more-

Ozone, one of the most powerful oxidizing chemicals known, has been a subject of research for more than 16 years at the Foundation.

Conference sponsors, in addition to Armour Research Foundation and National Science Foundation, are Aerojet-General Corp., Air Reduction Co., American Electroaire Co., E. I. Du Pont De Nemours and Co., Grace Chemical Research and Development Co., Groak Engineering Corp., Linde Air Products Co., Melco Products, Inc., Welsbach Corp., Westinghouse Electric Corp., the Division of Industrial and Engineering Chemistry of the American Chemical Society, and Air Pollution Foundation.

Information concerning the conference can be obtained by writing Sidney Mittler, Armour Research Foundation, 10 W. 35th St., Chicago 16.

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Sara Leonard, Ext. 2213

FOR RELEASE: Immediate

An art and design workshop for creative high school students will be held this fall at Illinois Institute of Technology's Institute of Design in Chicago.

The junior workshop--open to junior and senior high school students--will be offered Saturday mornings, starting Sept. 22.

Registration will be at the first session. The class will meet from 9 a.m. to noon Sept. 22 through Jan. 26 in IIT's Crown Hall, 10 W. 34th St.

"The workshop combines exploration with the learning of skills, said John Waddell, head of art education. "The new skills learned in the workshop sessions, in turn, will increase the student's possibilities for free expression."

Included in the course will be instruction and workshop practic in visual design, photography, sculpture, and painting.

Students will experiment with two dimensional materials using color, texture, line, and photography. Work with three dimensional materials will include wire, plaster, clay, and wood. Students also will design and make objects that can be seen, felt, heard, and used.

The junior workshop is part of the art education program at the Institute of Design. It is directed by Waddell and Cosmo Campoli, noted sculptor and instructor at the Institute of Design.

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[illegible]ara Leonard, Ext. 2213

FOR RELEASE: At Will

SPECIAL TO KANSAS CITY NEWSPAPERS

Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, will speak at a meeting of the institution's Kansas City Alumni Club Thursday, Sept. 27.

The dinner meeting will be held at 7 p.m. at the Wishbone Restaurant, 4555 Main St.

Kubicek will discuss the need for engineering and scientific personnel in industry and the role of colleges in furnishing this personnel. He also will show colored slides of the Illinois Tech campus which is being redeveloped under a long term program of land clearance and construction.

In charge of arrangements for the meeting is [illegible]. A. Zietz, 4300 W. 62nd Terrace, Mission, Kan., president of the Kansas City Alumni Club.

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arn Leonard, Ext. 2213

OR RELEASE: At Will

SPECIAL TO ST. LOUIS NEWSPAPERS

Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, will speak at a meeting of the institution's St. Louis Alumni Club Wednesday, Sept. 26.

The dinner meeting will be held at 6:30 p.m. at Medart's Restaurant, Skinker and Clayton Blvd.

Kubicek will discuss the need for engineering and scientific personnel in industry and the role of colleges in furnishing this personnel. He also will show colored slides of the Illinois Tech campus which is being redeveloped under a long term program of land clearance and construction.

In charge of arrangements for the meeting is Kenneth W. Moody, 6930 Glades Ave., president of the St. Louis Alumni Club.

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[illegible]ora Leonard, Ext. 2213

FOR RELEASE: At will

SPECIAL TO PEORIA NEWSPAPERS

Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, will speak at a meeting of the institution's Peoria Alumni Club Tuesday, Sept. 25.

The dinner meeting will be held at 6:30 p.m. at the University Club, 232 [illegible]. Jefferson Ave.

Kubicek will discuss the need for engineering and scientific personnel in industry and the role of colleges in furnishing this personnel. He also will show colored slides of the Illinois Tech campus which is being redeveloped under a long term program of land clearance and construction.

In charge of arrangements for the meeting is Chester [illegible]. Swan, 701 E. Nebraska Ave., president of the Peoria Alumni Club.

-vjd-

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Walter Yurk, Ext. 547

FOR RELEASE: Immediate

The air inhaled by Chicago residents last month was somewhat cleaner than that of a year ago.

An average of 40.5 tons of dust per square mile fell on the city during August, according to Samuel Radner, research chemical engineer at Armour Research Foundation of Illinois Institute of Technology.

For the same month a year ago, the dustfall in Chicago was 45.9 tons per square mile.

The August dustfall was slightly higher than in July, but less than half as great as the average of 90.6 tons for April, high for any month thus far this year.

Radner said last month's dustfall probably was relatively low because of frequent rainfalls, which helped to keep the streets washed down and the ground well moistened. Because of this there was less dust for the wind to pick up and whip around.

Too, the winds were somewhat lower during August than for the same month a year ago, Radner reported.

Greatest improvement was noted in the Loop area. The dustfall in the Loop last month was 68.1 tons of dust per square mile, compared to 104.7 tons a year ago. Normally, the dustfall for the area runs above 100 tons per square mile.

MAILED: 9/19/56

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Here is a breakdown of the August dustfall:

Station Address	Ward Number	Total Dustfall
The Fair Store	1	81.3
33 N. LaSalle St.	1	54.8
Loop Average		68.1
2135 S. Michigan Ave.	1	57.5
825 E. 44th St.	4	38.2
1362 E. 59th St.	5	33.2
7531 Stony Island Ave.	7	59.8
67 W. 113th Pl.	9	60.3
8858 Marquette Ave.	10	40.9
3105 W. 63rd St.	13	33.6
62nd and Linder	13	51.4
7559 Eggleston Ave.	17	19.0
1620 W. 99th St.	19	19.7
1340 W. Monroe St.	26	53.7
5055 Fulton St.	30	30.0
1513 N. Western Ave.	32	34.2
5602 Belden Ave.	36	24.3
3312 Belle Plaine Ave.	40	34.4
7350 Pratt Ave.	41	22.9
54 W. Hubbard St.	42	39.1
551 Grant Pl.	44	32.6
3532 Sheffield Ave.	46	45.0
1622 Pratt Bl.	49	39.2
Average		40.5

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Mildred Wyatt, Ext. 694

FOR RELEASE: At Will

Joseph J. Kowal has been named assistant manager of program development at Armour Research Foundation of Illinois Institute of Technology, Chicago, it was announced by Clarence E. Watson, ARF assistant director.

Kowal has been serving as assistant manager of licensing and special services and as conference coordinator at the Foundation since January, 1956.

In his new capacity, he will assist Watson in the administration of the Foundation's research program development activities. In addition, he will continue his supervisory duties in connection with conferences and meetings.

Kowal joined the Foundation in 1950 as assistant purchasing agent and was promoted to administrative supervisor in the business office in 1952.

A graduate of Loyola University, Chicago, he holds a bachelor of science degree in marketing. During World War II, he served as a radar man in the Navy.

Married and the father of two children, he resides with his family at 208 N. Brighton St., Arlington Heights, Ill.

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FOR RELEASE:

Memorandum to:	CITY AND PHOTO EDITORS
Subject:	SWEARING IN OF 40 FRESHMEN TO THE ILLINOIS TECH NAVY ROTC UNIT.
Time and Place:	2:10 P.M. THURSDAY, SEPT, 20, ALUMNI MEMORIAL HALL 3201 S. DEARBORN ST.

Illinois Tech's Navy ROTC unit will swear in 40 freshmen as new members of the unit at 2:10 p.m. Thursday, Sept. 20. The 40 freshmen, the uniformed student officers, and the Navy-officer staff of the naval science department should make colorful picture possibilities.

Capt. Justin A. Miller, USN, new commanding officer of the Illinois Tech Navy ROTC unit, will be in charge.

You are invited to send a photographer and/or reporter. I will be on hand to assist.

Sara Leonard
CAlumet 5-9600
Ext. 2213

9/19/56

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Director of Public Relations — **Stewart S. Howe**
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Armour Research Foundation of
Illinois Institute of Technology — **CAlumet 5-9600**, Ext. **318**
Night phone:
University 4-4677

FOR RELEASE: Wednesday AMs, Sept. 26, 1956

Peoria--The best way American industry and business can assure a supply of well-trained engineers and scientists is through greater financial aid to colleges and universities.

This was the view expressed here last night (Sept. 25) by Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, at a meeting of the IIT alumni club of Peoria.

"American business is crying for qualified persons from the colleges and universities," Kubicek said. "By giving financial aid to the colleges the business world is supporting educational pursuits which ultimately benefit business itself."

Although a quantity of technical personnel could be had if the colleges lowered entrance requirements and educational standards and reduced tuition costs, he said that this method ultimately would be neither practical nor beneficial.

Kubicek told of the tremendous need for engineering graduates as shown in the average starting salaries for engineering graduates of IIT.

"Considering four popular engineering fields--chemical, civil, electrical, and mechanical engineering--the June 1956 average starting salary was $436 per month," he stated. "Five years ago in June 1951, the average for the same engineering fields was $307 per month."

9/21/56 -more-

Kubicek talk--add 1

Using colored slides, Kubicek concluded his remarks by showing evidence of Illinois Tech's development of physical facilities and expanded student body.

The Illinois Tech campus is being redeveloped under a long term program of land clearance and construction.

Kubicek spoke at a meeting at the University Club, 232 [illegible]. Jefferson Ave.

-vjd-

ews about the

NATIONAL ELECTRONICS CONFERENCE

HOTEL SHERMAN OCTOBER 1-3, 1956 CHICAGO, ILLINOIS

or release: Immediate

From: Frank Judd
Illinois Institute of Technology
Chicago 16, Calumet 5-9600

Three tutorial sessions on the latest developments in electronics will highlight the 12th annual National Electronics Conference at the Hotel Sherman in Chicago on Oct. 1-3.

Some of the nation's leading scientists and engineers will participate in the sessions dealing with information theory in communications and radar, radioisotopes in industry, and solid state electronics.

It is the first time tutorial sessions have been scheduled as part of the NEC program, R. R. Jenness, conference president, pointed out.

"The educational phase of the program is designed to provide a rounded picture of the newest developments in three of the fastest-moving fields in electronics," he explained.

Twenty-one other technical sessions, three luncheon meetings, and an exhibition of electronic equipment complete the program, having "Fifty Years of Progress Through Electronics" as its theme.

Approximately 100 technical papers and a record 240 commercial exhibits will be presented at the three-day conference. More than 10,000 persons are expected to attend.

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9/21/56

A half day will be devoted to each tutorial session. Information on theory will be discussed on the morning of Oct. 2, radioisotopes on afternoon of Oct. 2, and solid state electronics on morning of Oct. 3.

Speakers at the information theory session will be Peter Elias and William Siebert of Massachusetts Institute of Technology, George A. Miller of Harvard University, and John L. Kelly of Bell Telephone Laboratories.

Addressing the session on radioisotopes will be Ernest H. Wakefield of Radiation Counter Laboratories, Philip Shevick of Nuclear Instrument and Chemical Corp., Harold V. Watts, of Armour Research Foundation of Illinois Institute of Technology, William C. Redman of Fournier Institute of Technology, and R. D. Shelton of Admiral Corp.

The solid state session will hear R. H. Bube of RCA Laboratories, Robert Herr of Minnesota Mining and Manufacturing Co., P. E. Tannerwald of MIT, and W. C. Dunlap of General Electric Co.

The luncheon addresses will be given by John P. Hagen, director of the "Vanguard" project at the Naval Research Laboratory, Washington; Frederick L. Hovde, president of Purdue University, Lafayette, Ind., and Herbert Scoville Jr., assistant director of the U.S. Central Intelligence Agency, Washington.

Hagen will discuss "The Space Satellite Program" at the Monday luncheon; Hovde, on Tuesday, will speak on "Project MURA"--the history and significance of the Midwestern Universities Research Association, and on Wednesday, Scoville will review the "Russian Technological Education Program."

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The opening day's technical sessions will concern components and materials, instrumentation, measurements, receiver techniques, data storage systems, servomechanism theory and applications.

On Oct. 2, the technical program will deal with magnetic amplifiers, network and filter theory, data processing systems, and microwaves, in addition to information theory and radioisotopes.

The conference will conclude on Oct. 3 with sessions relating to solid state electronics, high power audio systems, network synthesis, antennas, quality control and reliability, automation techniques, medical electronics, and pulse techniques.

The Midwestern Simulation Council will hold a concurrent session on "Simulation of Hydraulic Systems" on the afternoon of Oct. 3 for those specializing in this field.

The NEC is sponsored annually by the American Institute of Electrical Engineers, Institute of Radio Engineers, Illinois Institute of Technology, University of Illinois, and Northwestern University.

Also participating in the conference are Michigan State, Purdue, Michigan, and Wisconsin universities, as well as the Radio-Electronics-Television Manufacturers Association and Society of Motion Picture and Television Engineers.

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FOR RELEASE: Thursday AMs, Sept. 27, 1956

St. Louis--The best way American industry and business can assure a supply of well-trained engineers and scientists is through greater financial aid to colleges and universities.

This was the view expressed here last night (Sept. 26) by Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, at a meeting of the IIT alumni club of St. Louis.

"American business is crying for qualified persons from the colleges and universities," Kubicek said. "By giving financial aid to the colleges the business world is supporting educational pursuits which ultimately benefit business itself."

Although a quantity of technical personnel could be had if the colleges lowered entrance requirements and educational standards and reduced tuition costs, he said that this method ultimately would be neither practical nor beneficial.

Kubicek told of the tremendous need for engineering graduates as shown in the average staring salaries for engineering graduates of IIT.

"Considering four popular engineering fields--chemical, civil, electrical, and mechanical engineering--the June 1956 average starting salary was $436 per month," he stated. "Five years ago in June 1951, the average for the same engineering fields was $307 per month.

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9/24/56

Kubicek talk--add 1

Using colored slides, Kubicek concluded his remarks by showing evidence of Illinois Tech's development of physical facilities and expanded student body.

The Illinois Tech campus is being redeveloped under a long term program of land clearance and construction.

Kubicek spoke at a meeting at Medart's Restaurant, Skinker and Clayton Blvd.

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Frank Judd, Ext. 546

FOR RELEASE: At Will

Sales relationships, research efficiency, and off-shoot gains from research will be featured at the second National Industrial Research Conference to be held in Chicago next April 24 and 25.

"Research for Profit" again will be the theme of the two-day conference sponsored by Armour Research Foundation of Illinois Institute of Technology at the Conrad Hilton Hotel

Some of the nation's leading industrial executives will speak at the conference.

Nine papers will be presented at three general sessions on "Sales Growth through Research," "More Research for the Dollar," and "Extra Dividends from Research." There also will be addresses at two luncheons and a dinner meeting.

A similar conference held last spring, which was the high spot of the Foundation's observance of its 20th year as an independent industrial research organization, was attended by nearly 400 persons.

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Mildred Wyatt, Ext. 694

FOR RELEASE: Immediate

A chemical engineering specialist has been appointed technical consultant at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Dr. Herman C. Schutt will provide consultation on projects in the Foundation's chemistry and chemical engineering research department, according to Clark E. Thorp, department manager.

Schutt's specialities include fluid dynamics, heat transfer, chemical thermodynamics, petroleum processing, and manufacture of ethylene, acetylene, and their derivatives. He also has had broad experience in pilot plant work and its relations to plant scale design.

A graduate of the Institute of Technology of Munich, Germany, Schutt holds both an electrical engineering and a mechanical engineering degree. He also holds a degree of doctor of technical science.

Schutt has extensive experience in industry and engineering and was associated with Stone & Webster Engineering Corp. for 15 years before entering consulting work a year ago in Boston.

He is a member of the American Chemical Society, its petroleum chemistry, industrial engineering chemistry, and gas and fuel chemistry divisions. He also is a member of the Society of Chemical Industry, National Society of Professional Engineers, and various other professional organizations.

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FOR RELEASE: Friday AMs, Sept. 28, 1956

Kansas City--The best way American industry and business can assure a supply of well-trained engineers and scientists is through greater financial aid to colleges and universities.

This was the view expressed here last night (Sept. 27) by Earl C. Kubicek, director of alumni relations and placement at Illinois Institute of Technology, Chicago, at a meeting of the IIT alumni club of Kansas City.

"American business is crying for qualified persons from the colleges and universities," Kubicek said. "By giving financial aid to the colleges the business world is supporting educational pursuits which ultimately benefit business itself."

Although a quantity of technical personnel could be had if the colleges lowered entrance requirements and educational standards and reduced tuition costs, he said that this method ultimately would be neither practical nor beneficial.

Kubicek told of the tremendous need for engineering graduates as shown in the average starting salaries for engineers graduating from IIT.

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9/25/56

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Using colored slides, Kubicek concluded his remarks by showing evidence of Illinois Tech's Development of physical facilities and expanded student body.

The Illinois Tech campus is being redeveloped under a long term program of land clearance and construction.

Kubicek spoke at a meeting at the Wishbone Restaurant, 4555 Main St.

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FOR RELEASE: At Will

India, Thailand, Burma may be exotic far-off places to some people, but to Paul B. W. Gollong they are just research sites.

Gollong leaves Oct. 7 on a four-month, 35,000-mile trip around the world as part of his job as manager of the international department at Armour Research Foundation of Illinois Institute of Technology, Chicago.

Purpose of the globe-girdling tour is for Gollong to check on the Foundation's overseas research programs.

The trip will take him to England, The Netherlands, Belgium, France, Switzerland, Italy, Turkey, Lebanon, Syria, Iraq, Pakistan, India, Ceylon, Burma, Thailand, Hong Kong, Japan, the Philippine Islands, and Hawaii.

Armour Research Foundation has conducted research work in 22 foreign countries since starting its international activities in 1942.

Research assistance performed by the Foundation for foreign countries ranges from industrial development and increased production to modernization and creation of industries, finding uses of raw materials, training personnel, and scientific and business counsel in setting up research centers.

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In Europe, Gollong will check on the progress of ARF's most recently initiated foreign program, the European Technological Observation Group plan, at its headquarters in The Hague, Netherlands. The ETOG plan was established to serve as a listening post to keep American industry informed of European technical development.

Gollong also will check the result of ARF programs in Asia such as the Foundrymen's Training Center in Kharagpur, India, where the Foundation is training personnel and advising local industry on progressive foundry techniques.

Another major visit in Asia will be to the Burma Applied Research Institute at Rangoon, where the Foundation is engaged in developing and expanding the research and engineering activities of the institute under a contract with the Union of Burma.

Gollong has been manager of the Foundation's international department since 1954. He joined the Foundation staff in 1951 as chief of Far East and Asia operations.

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Sara Leonard, Ext. 2213

FOR RELEASE: Sunday, Sept. 30, 1956

Lake Placid, N.Y.--New president of the American Society of Industrial Designers is a noted Chicago designer and educator.

He is Jay Doblin, director of the Institute of Design at the Illinois Institute of Technology, who served as the society's vice president last year.

Doblin was elected here yesterday (Sept. 29) at the annual meeting of the organization--composed of men and women who design most of the nation's mass-produced consumer products.

Other designers elected to offices were: vice president, William Goldsmith, of Design Research and Dave Chapman Industrial Design, Chicago; secretary, Kenneth Van Dyck, who heads his own design firm in Westport, Conn,, and treasurer, Francis Braun of Product Presentation, Inc., Cincinnati, Ohio.

Doblin, a former executive designer with Raymond Loewy Associates, assumed leadership of the internationally-known Institute of Design in 1955.

From 1947 to 1952, he was chairman of the evening school of the industrial design division of Brooklyn's Pratt Institute. He also conducted a private experimental design evening school in New York, named Studio D, for advanced students and professional designers.

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A native New Yorker, Doblin has designed several hundred successful products as a member of the Raymond Loewy firm and, previously as an associate, with Donald Dohner and Carl Otto, in two other design firms.

He is a contributor to professional journals and recently has developed a system of perspective drawing as a substitute for conventional freehand and mechanical systems.

The Institute of Design is widely known because it is the direct descendant of the Bauhaus, a school established in Germany following World War I which exerted world-wide influence in the development of modern art until it was closed by the hostile Nazi government in 1933.

The United States' descendant is credited with having changed the teaching methods of most of the nation's art and design schools.

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FOR RELEASE: At Will

A specialist in fluid mechanics has been appointed chairman of the department of mechanics at Illinois Institute of Technology, Chicago.

The appointment of Dr. Peter Chiarulli has been announced by Dr. Ralph G. Owens, dean of IIT's engineering division. Dr. Chiarulli comes to Illinois Tech from the National Bureau of Standards where he has been working on the dynamics of two-phase flows and shock theory.

Previous to joining the National Bureau of Standards, Chiarulli was an associate professor in applied mathematics at Brown University and an assistant professor of mathematics at Carnegie Institute of Technology.

A native of Brooklyn, N.Y., Chiarulli holds a bachelor of arts degree from Brooklyn College. He earned his master's and doctor's degrees at Brown University.

A member of honorary fraternities, Sigma Xi and Pi Mu Epsilon, Chiarulli also belongs to the Society for Industrial and Applied Mathematics.

Chiarulli is a veteran of World War II. He lives with his wife and two children at 3100 S. Michigan Ave., Chicago.

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FOR RELEASE: Sunday, Sept. 30, 1956

Spotlighting the city's prominence as a center of industrial design and design education was the election yesterday (Sept. 29) of two Chicagoans as president and vice president of the American Society of Industrial Designers.

New president of the ASID is Jay Doblin, designer and educator who is director of the Institute of Design at Illinois Institute of Technology. New vice president is William M. Goldsmith, secretary-treasurer of Design Research, Inc., and a partner in Dave Chapman Industrial Design.

Doblin and Goldsmith were elected at the annual meeting of the ASID in Lake Placid, N.Y. The ASID is an organization of the men and women who design most of the nation's mass-produced consumer products.

Other designers elected to office were: secretary, Kenneth Van Dyck, who heads his own design firm in Westport, Conn., and treasurer, Francis Braun of Product Presentation, Inc., Cincinnati, Ohio.

Doblin, who served as the society's vice president last year, is a former executive designer with Raymond Loewy Associates. He assumed leadership of the internationally-known Institute of Design in 1955.

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From 1947 to 1952, he was chairman of the evening school of the industrial design division of Brooklyn's Pratt Institute. He also conducted a private experimental design evening school in New York, named Studio D, for advanced students and professional designers.

A native New Yorker, Doblin has designed several hundred successful products as a member of the Raymond Loewy firm, and previously as an associate with Donald Dohner and Carl Otto, in two other design firms.

He is a contributor to professional journals and recently has developed a system of perspective drawing as a substitute for conventional freehand and mechanical systems.

Goldsmith joined Dave Chapman Industrial Design in 1939 after he was graduated from Carnegie Tech with a bachelor's degree in industrial design.

He served on the board of directors of the American Society of Industrial Designers in 1954-55 as part of his duties as chairman of the midwest ASID chapter. Goldsmith also has served on the host committee for the ASID 1951 annual meeting, and on the directory committee of the national organization.

Following his installation as ASID vice-president, Goldsmith will make a five-week visit to Pakistan as the head of the Design Research, Inc. foreign technical assistance project in that country for the International Cooperation Administration of the United States government. He will take with him a report and recommendations on craft and small industry development in that country based on the findings of a previous ten-week visit.

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FOR RELEASE: At Will

Paul T. McDonald, registrar at St. Louis University, has been appointed associate registrar at Illinois Institute of Technology, Chicago.

In his new position McDonald will assist IIT registrar, William W. Colvert.

A native of Hardin, Ill., McDonald has bachelor and master's degrees from St. Louis University. He served as registrar at St. Louis University for five years. Previously he was an administrative assistant there.

McDonald is a member of the National Education Association, American Association of School Administrators, Association of Higher Education, and the American Association of Collegiate Registrars and Admissions Officers.

The father of three children, McDonald lives with his wife and family at 3100 S. Michigan Ave., Chicago.

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